

20

CENTRAL OFFICE SWITCH

FEEDER 12

SONET

RDT 24

COMMON EQUIPMENT SHELF (CES) 26

CHANNEL BANK SHELF (CHS) 28

HIGH-DENSITY POTS CHANNEL BANK SHELF (HDCB) 30

POTS, ISDN, SPECIALS

POTS, LIMITED SPECIALS

EXTENSIONS: T1, T3, STS-1, OC-3

FIG. 1

FIG. 3

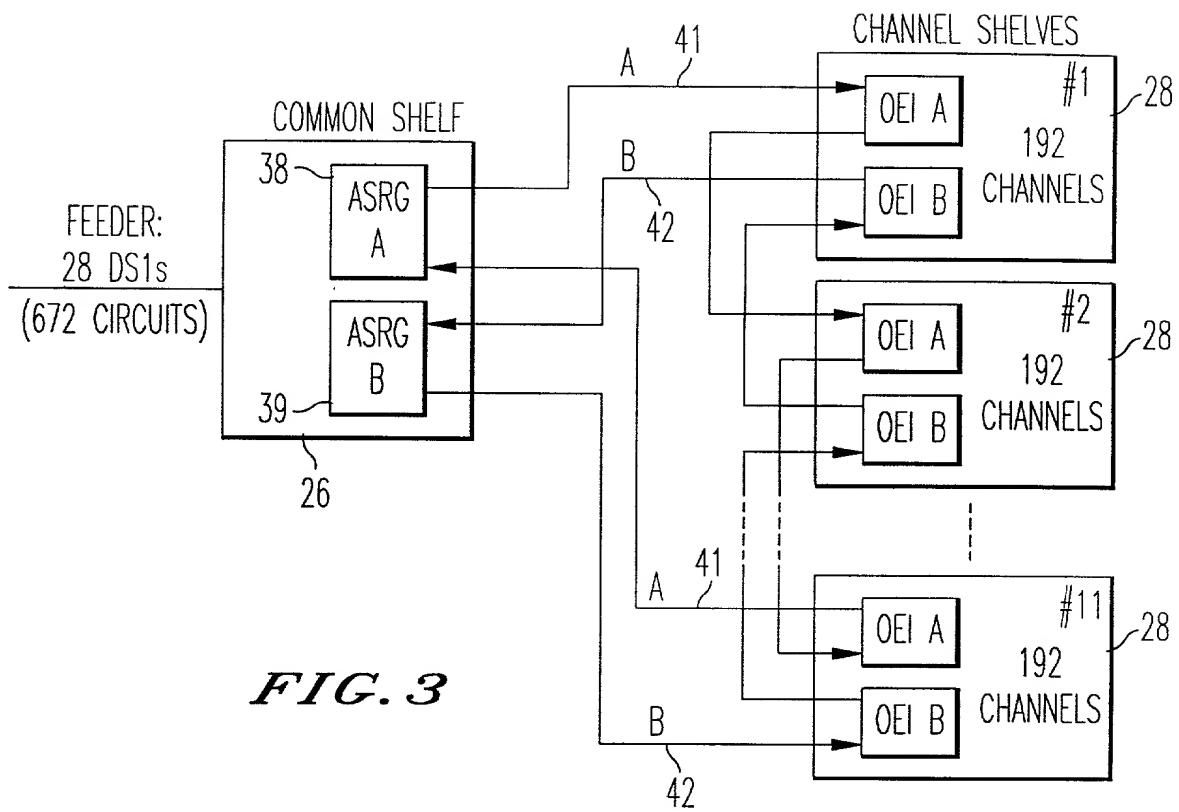
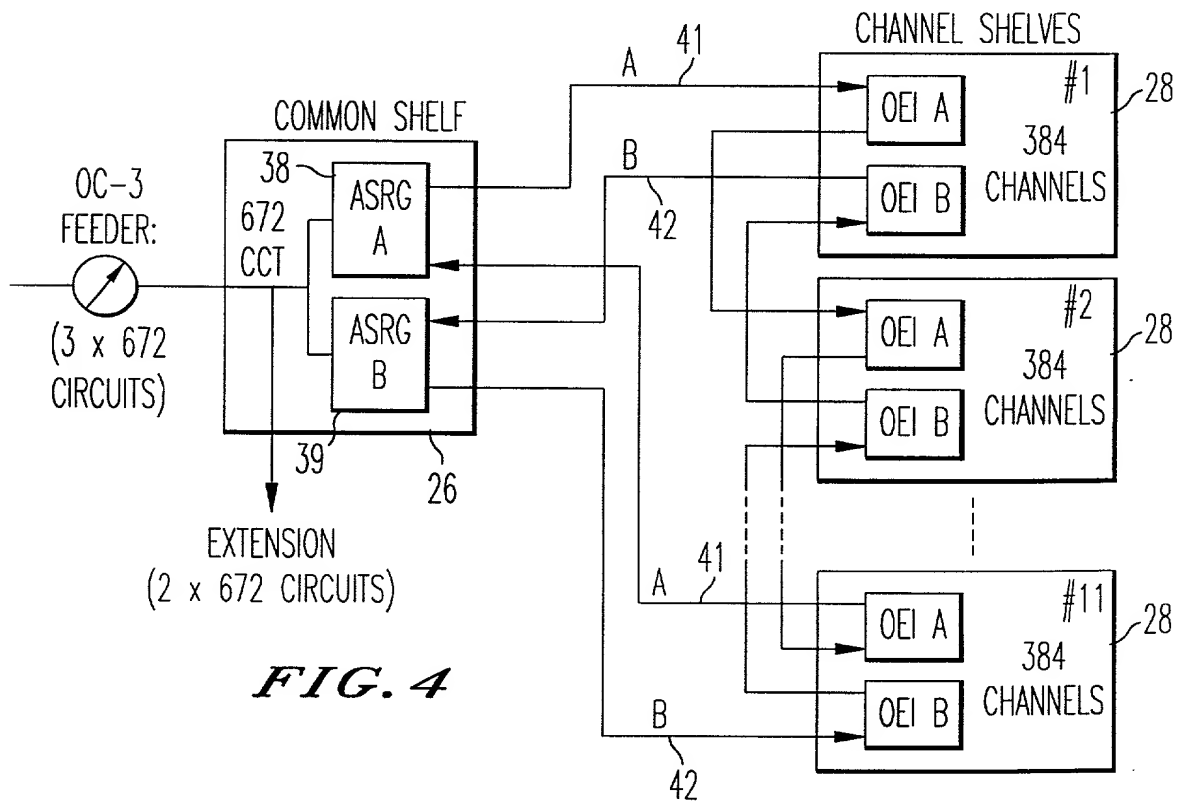


FIG. 4



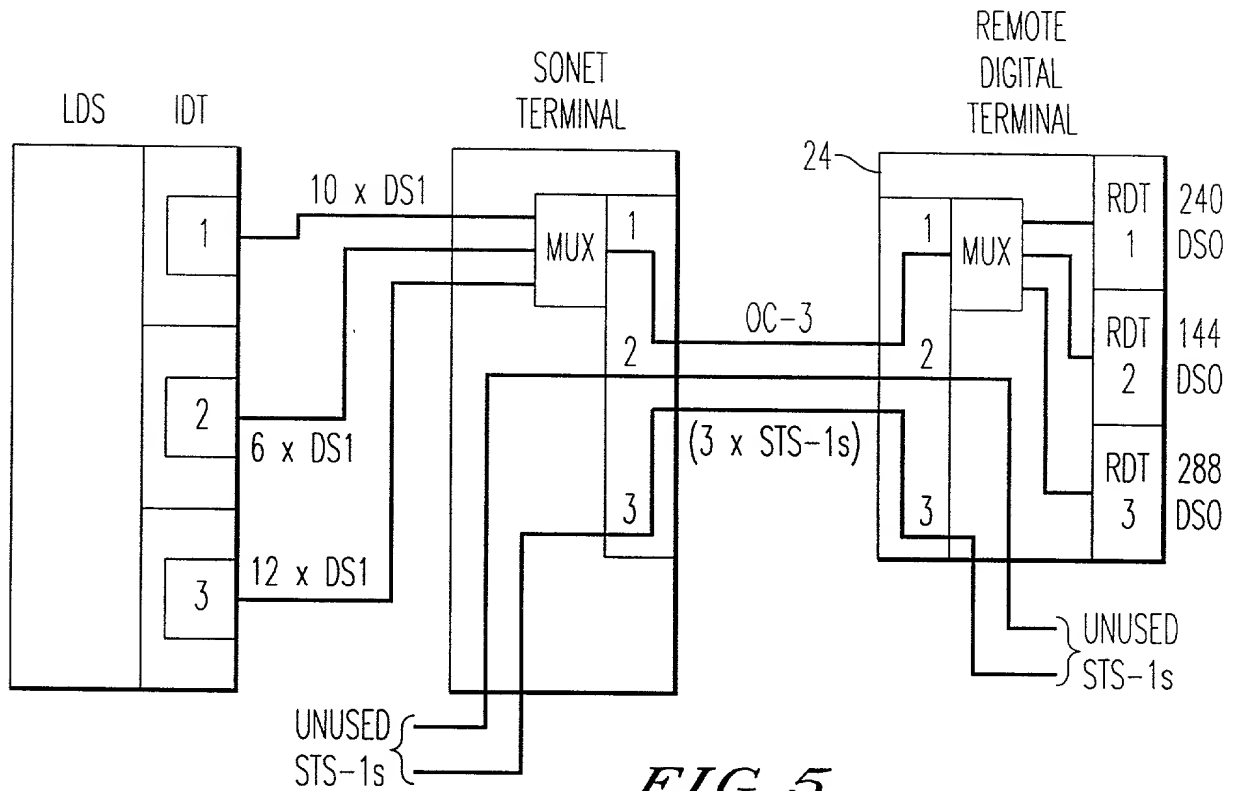


FIG. 5

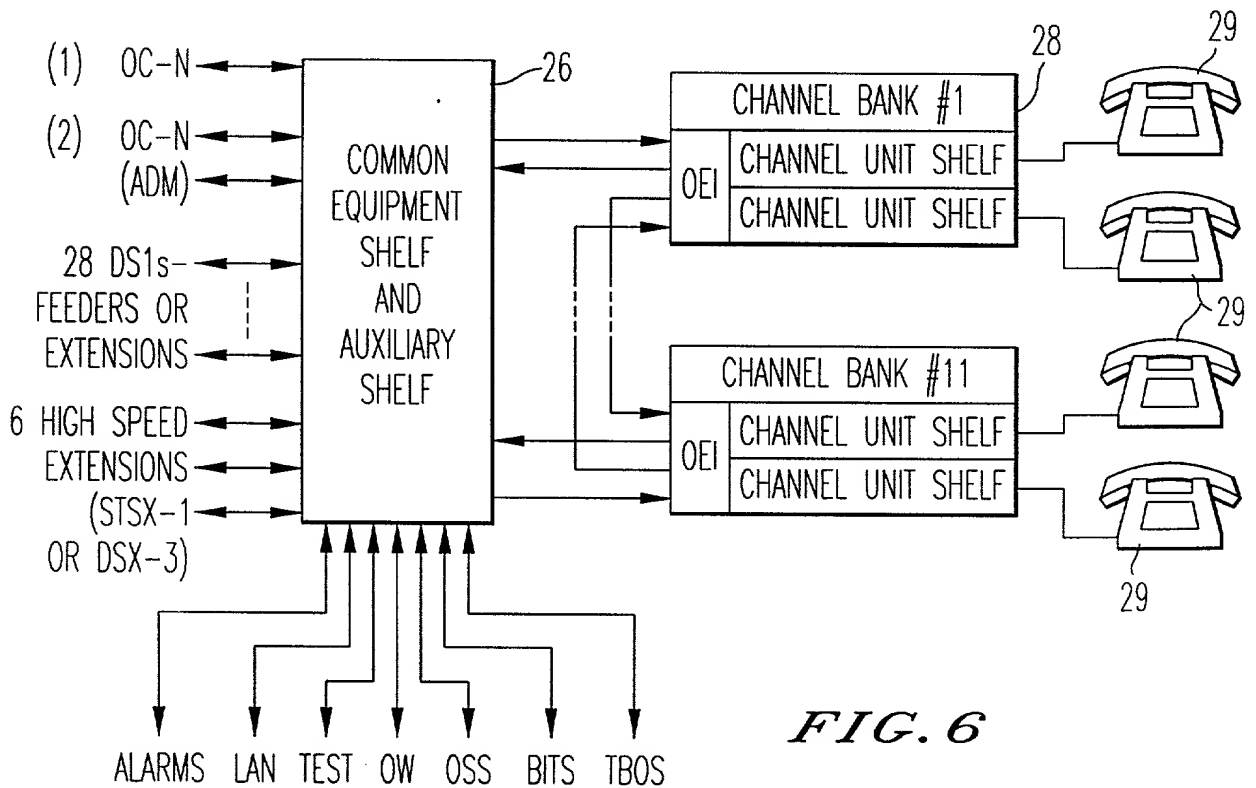


FIG. 6

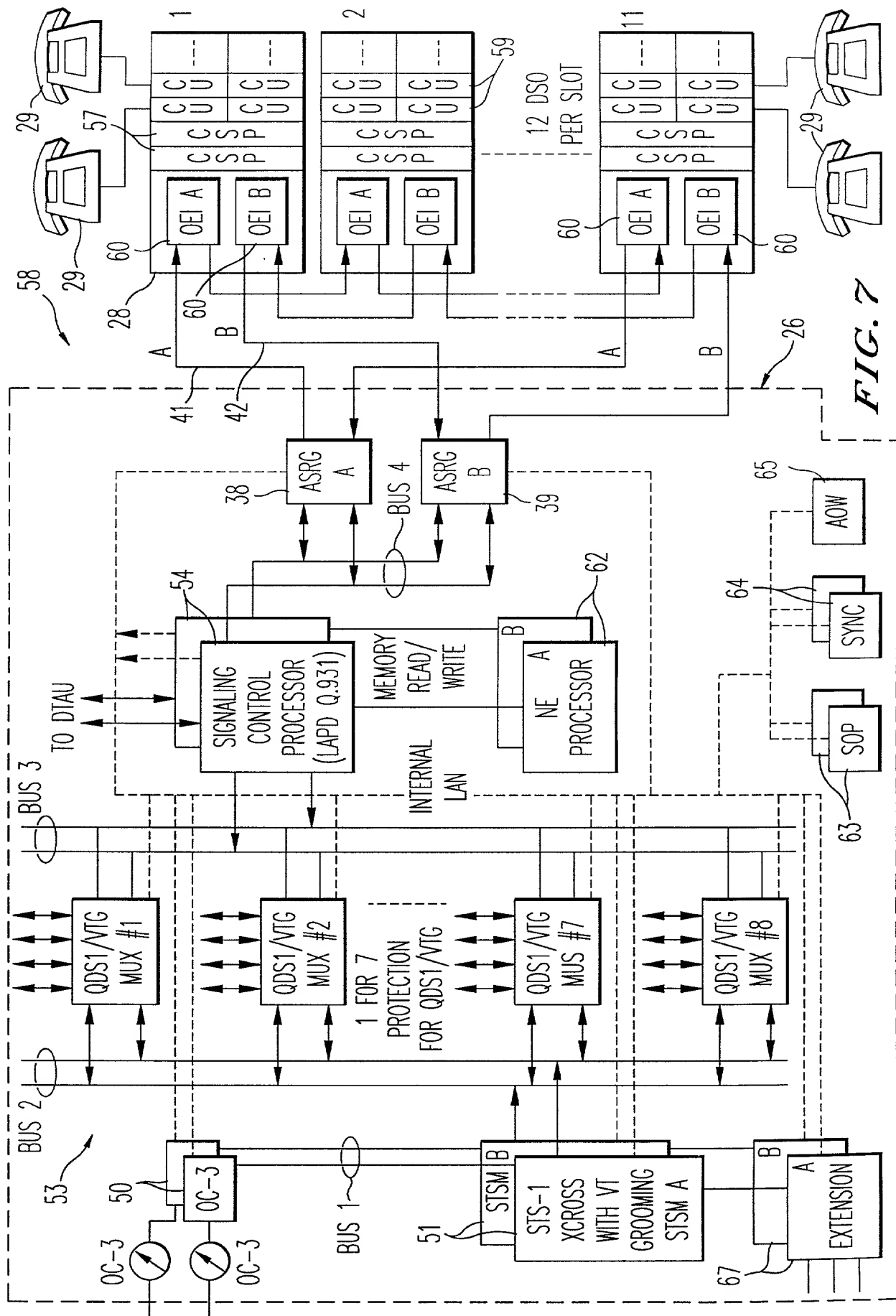


FIG. 7

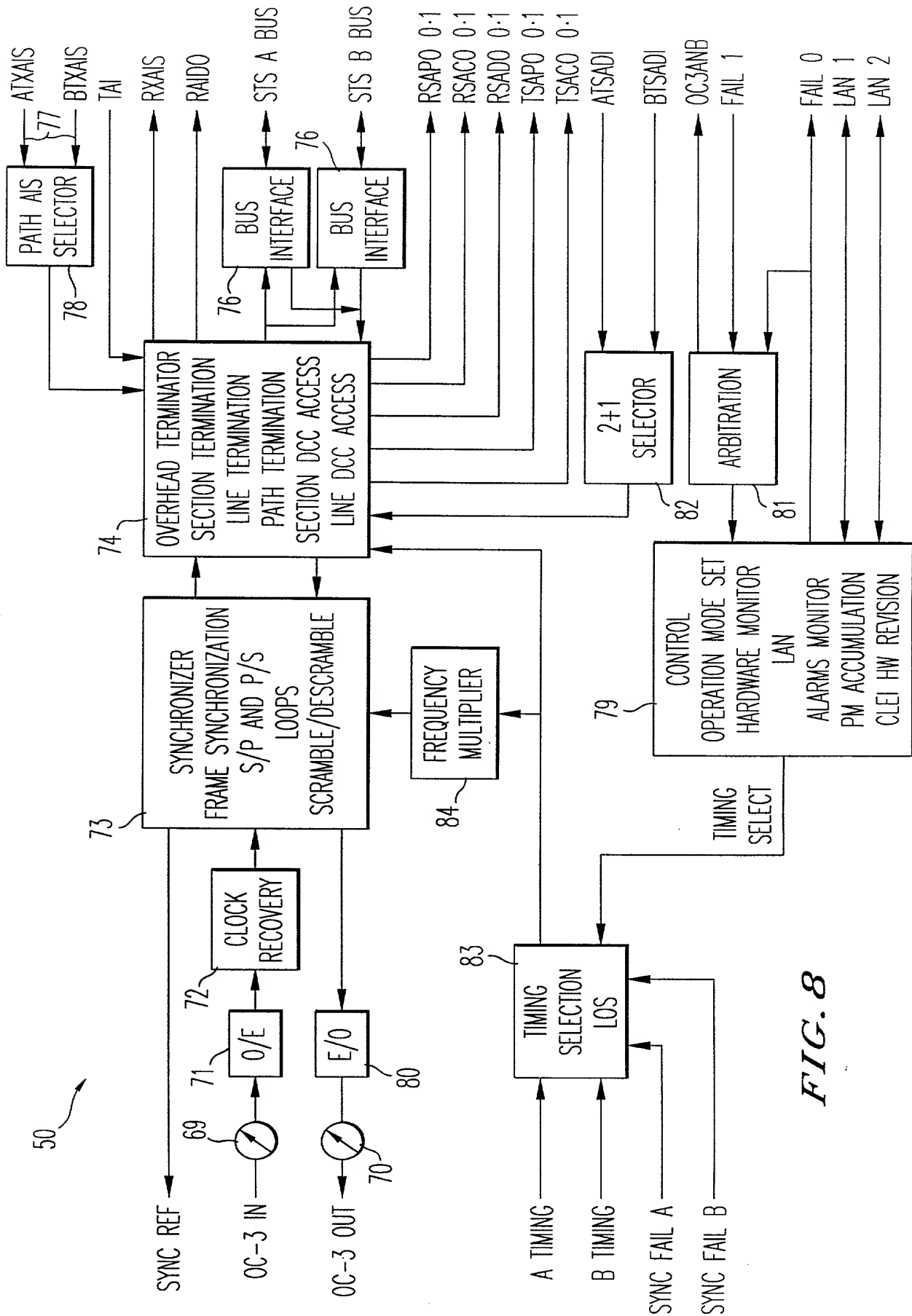


FIG. 8

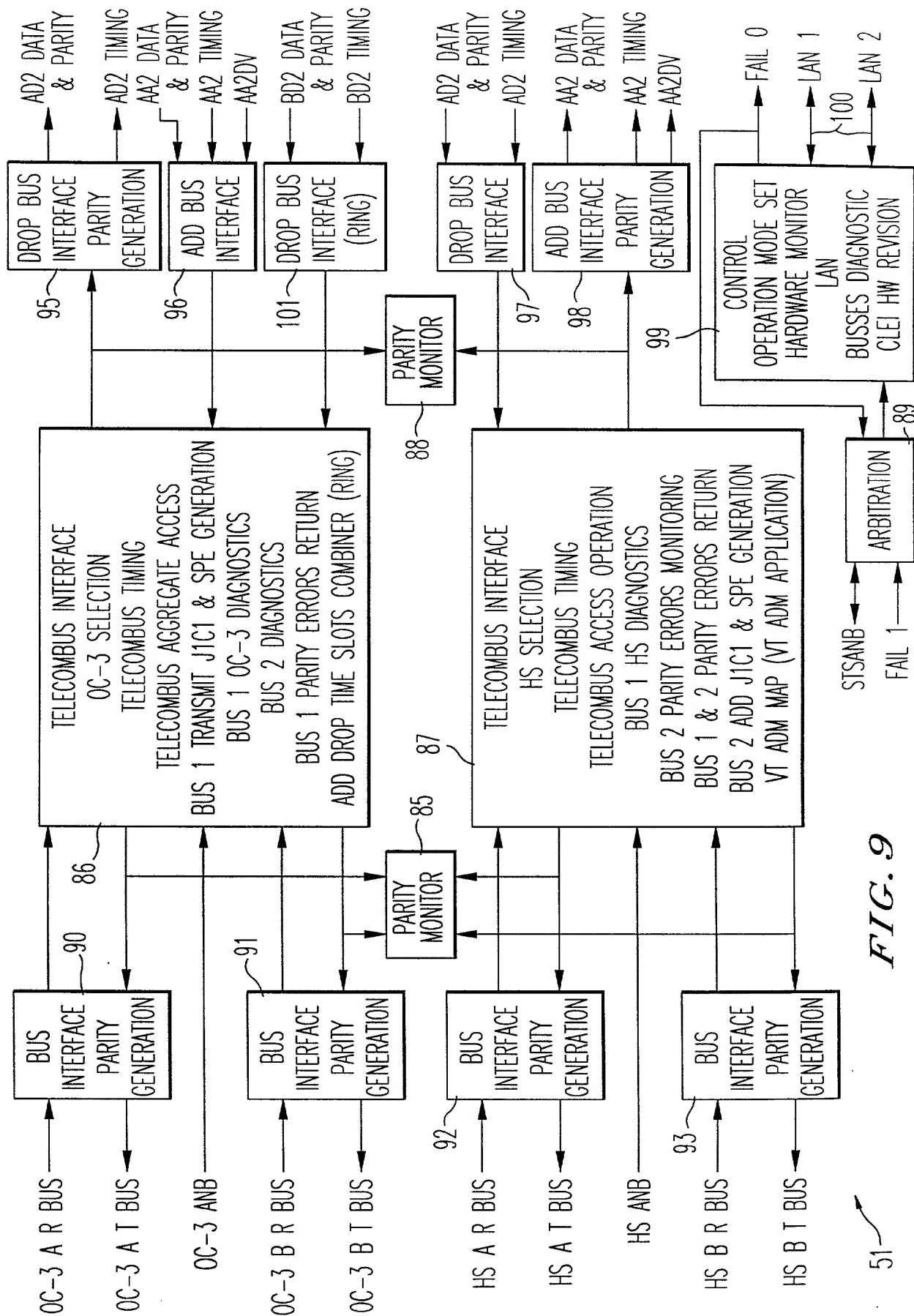


FIG. 9

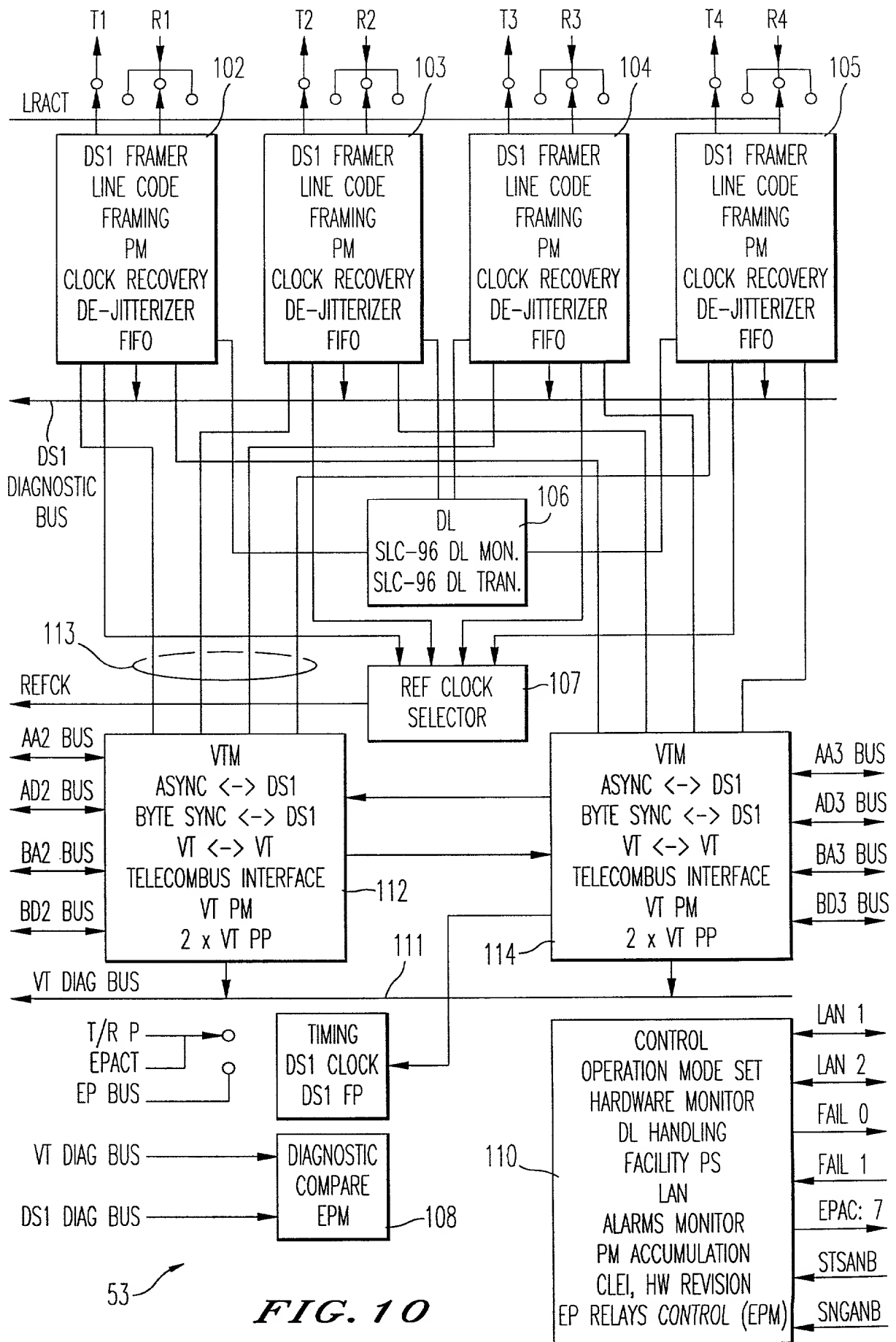


FIG. 10

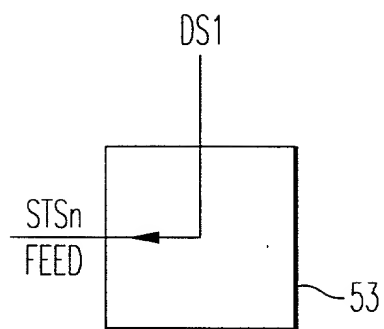


FIG. 11A

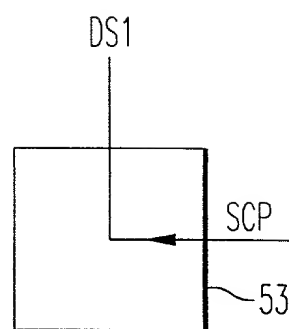


FIG. 11D

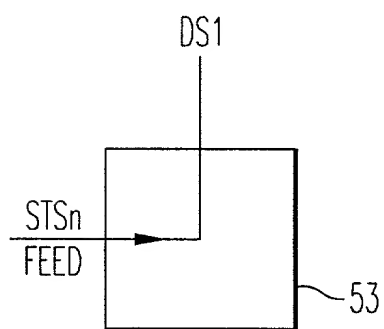


FIG. 11B

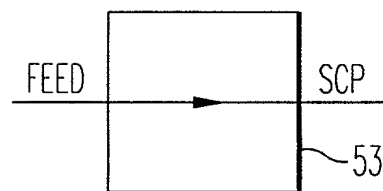


FIG. 11E

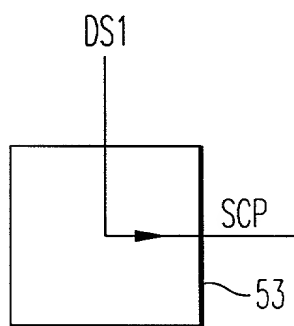


FIG. 11C

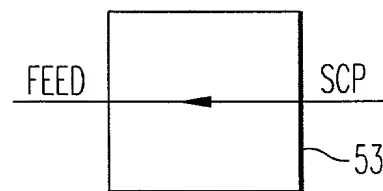
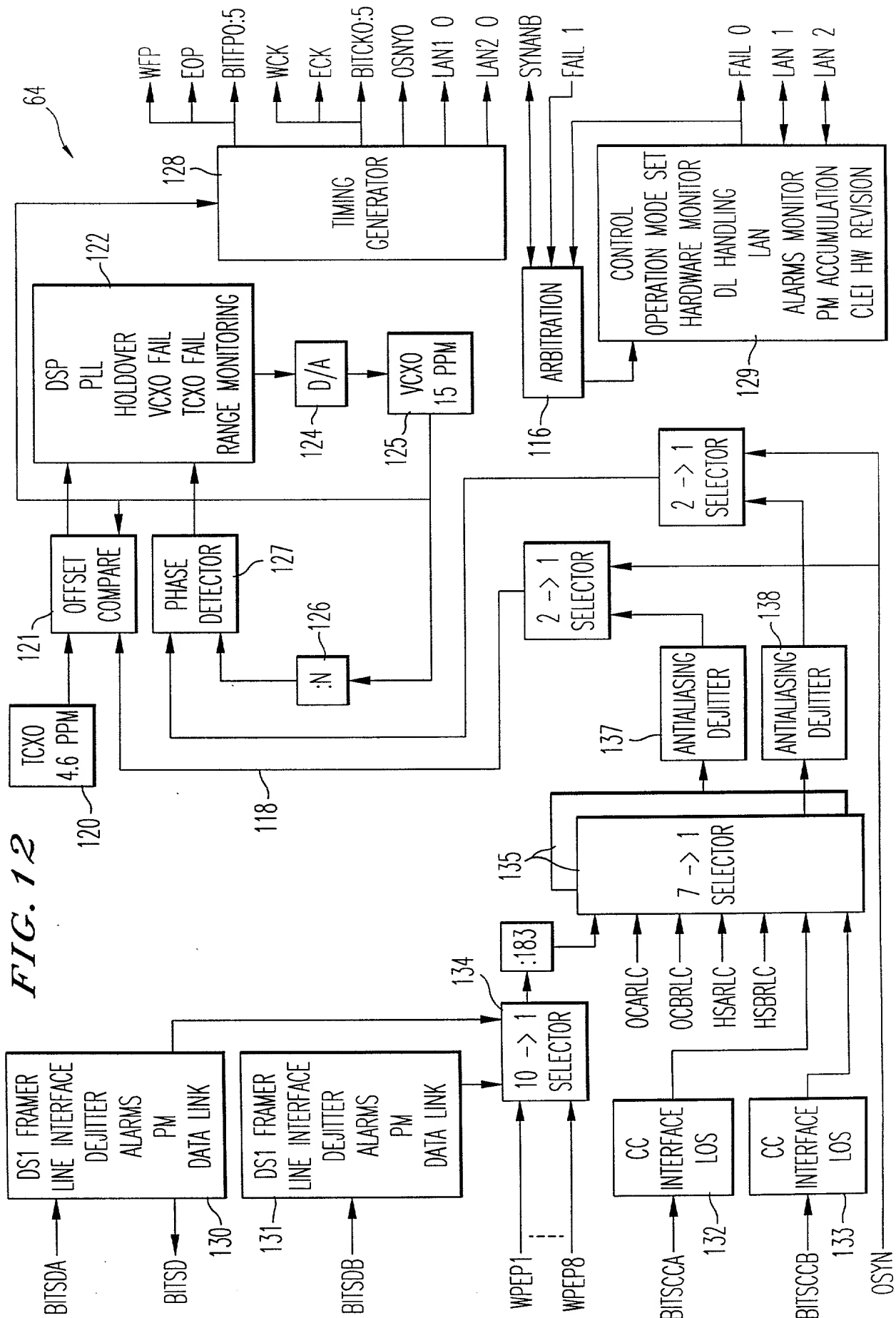


FIG. 11F



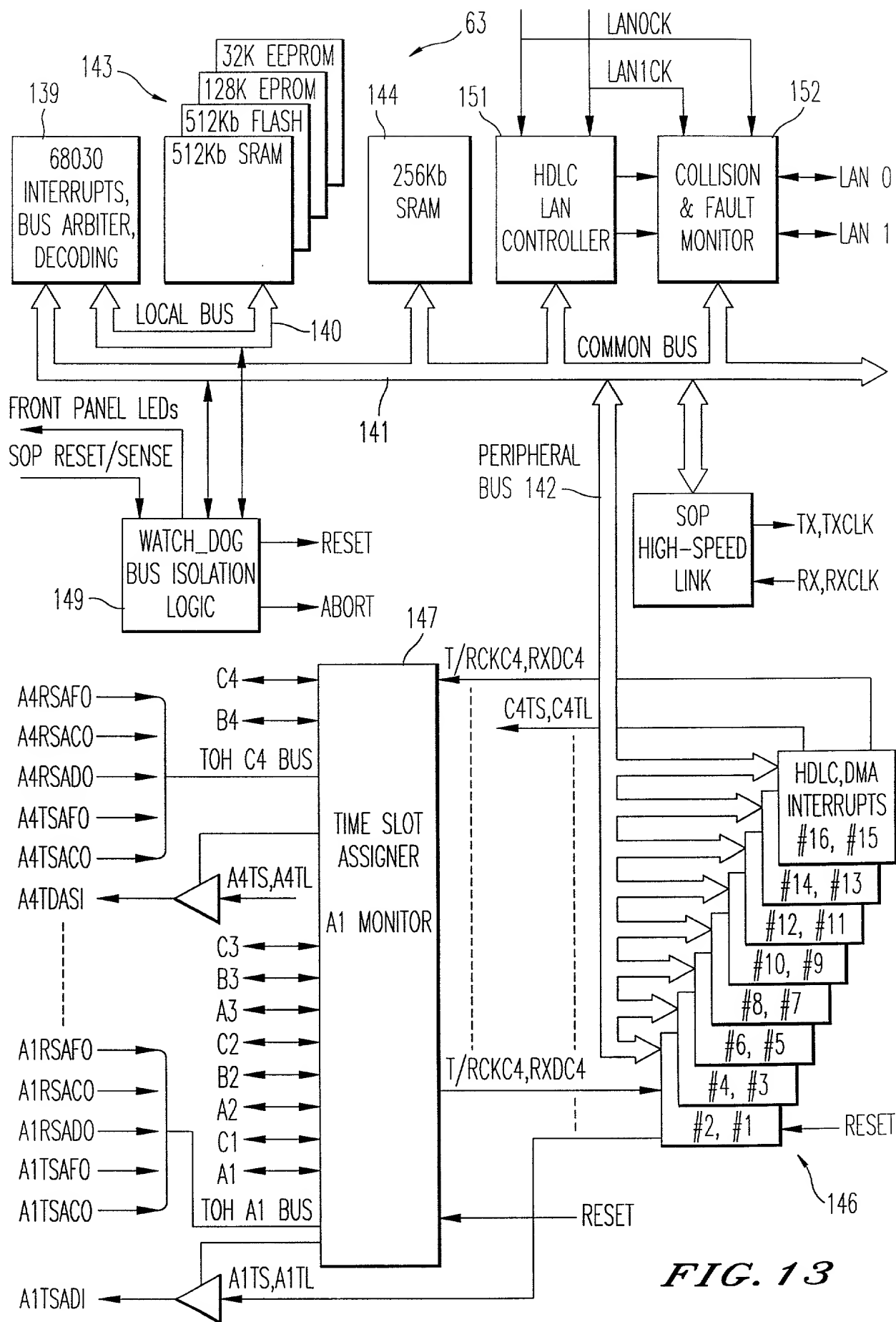


FIG. 13

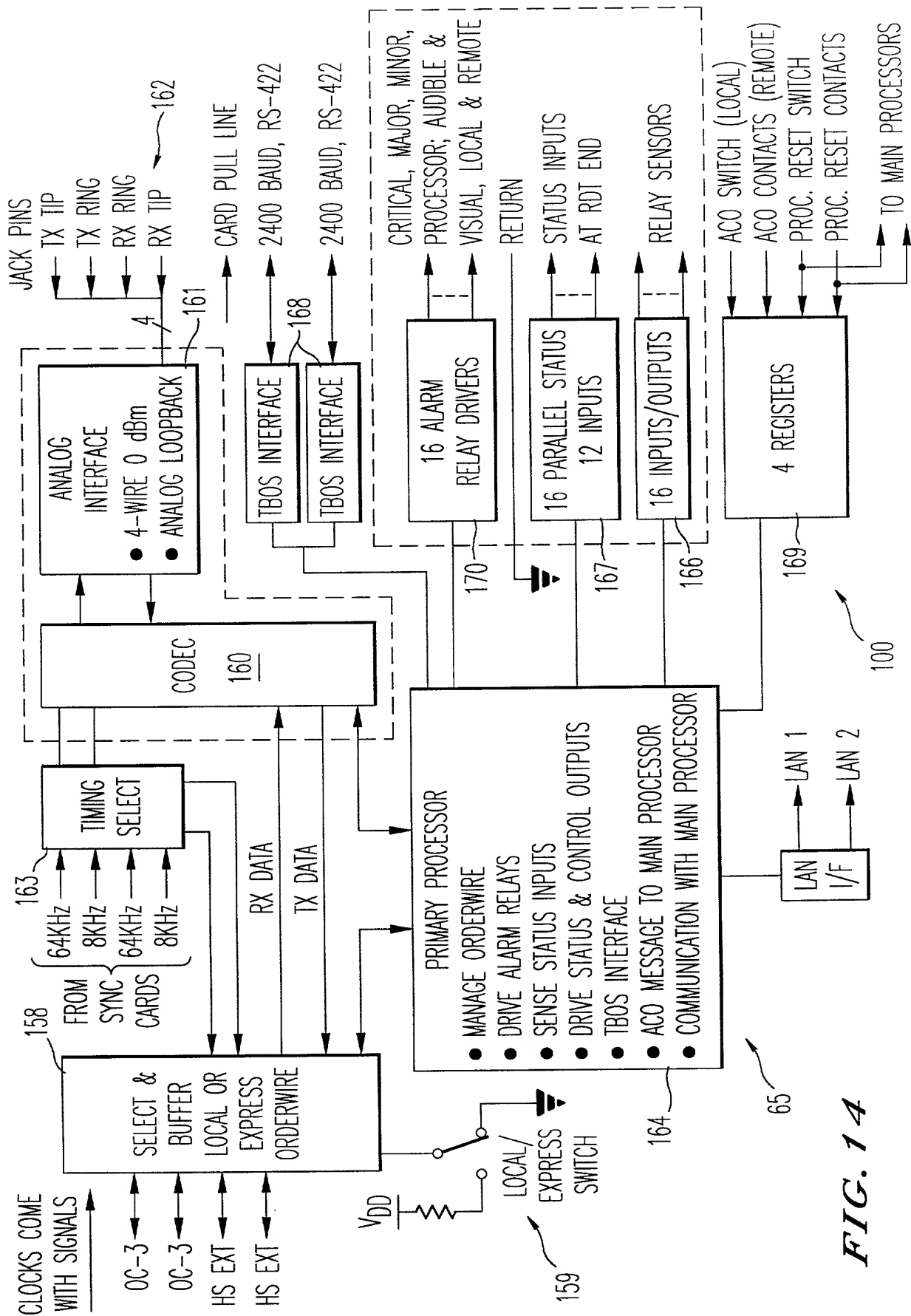


FIG. 14

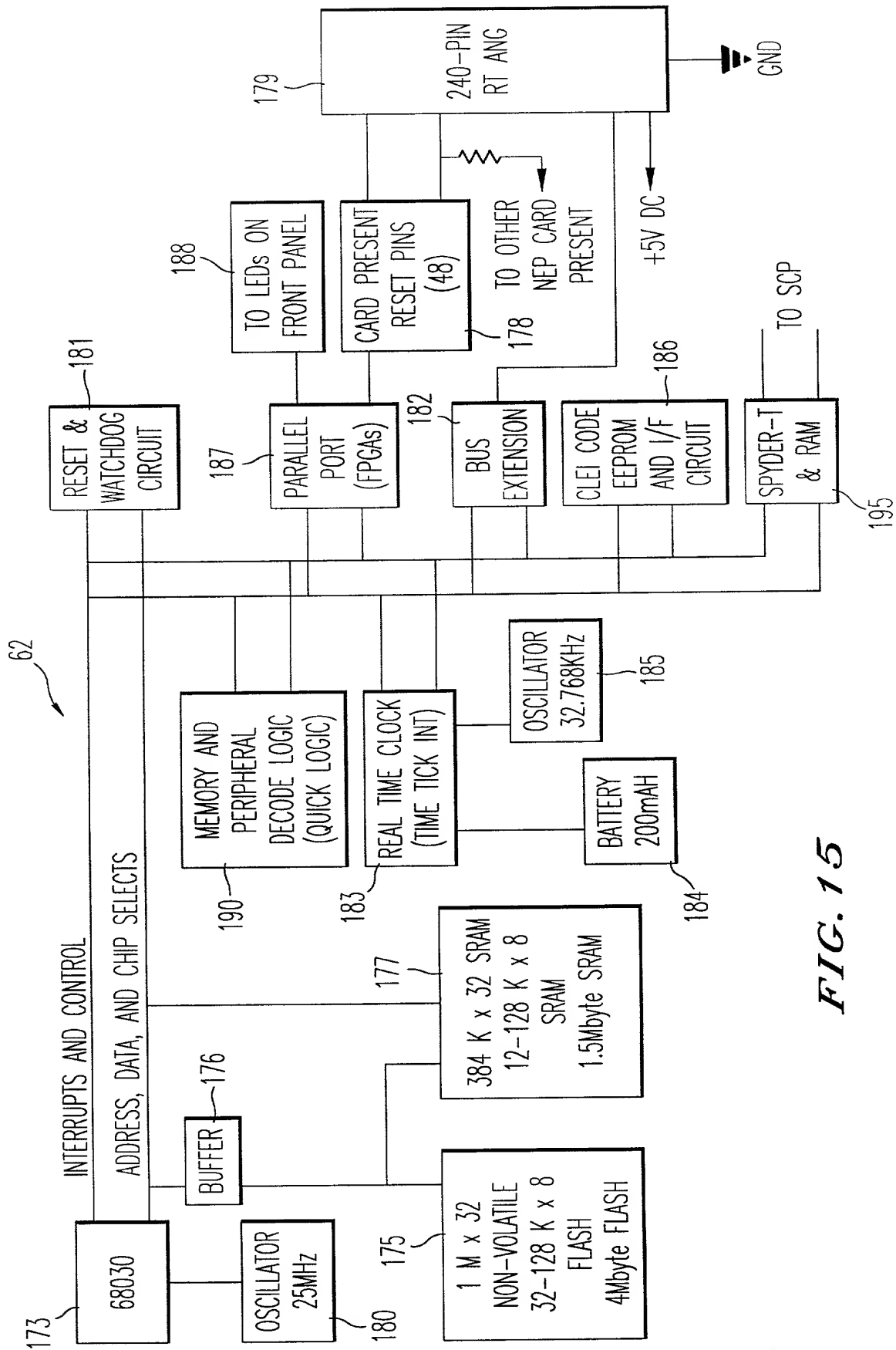


FIG. 15

FIG. 16

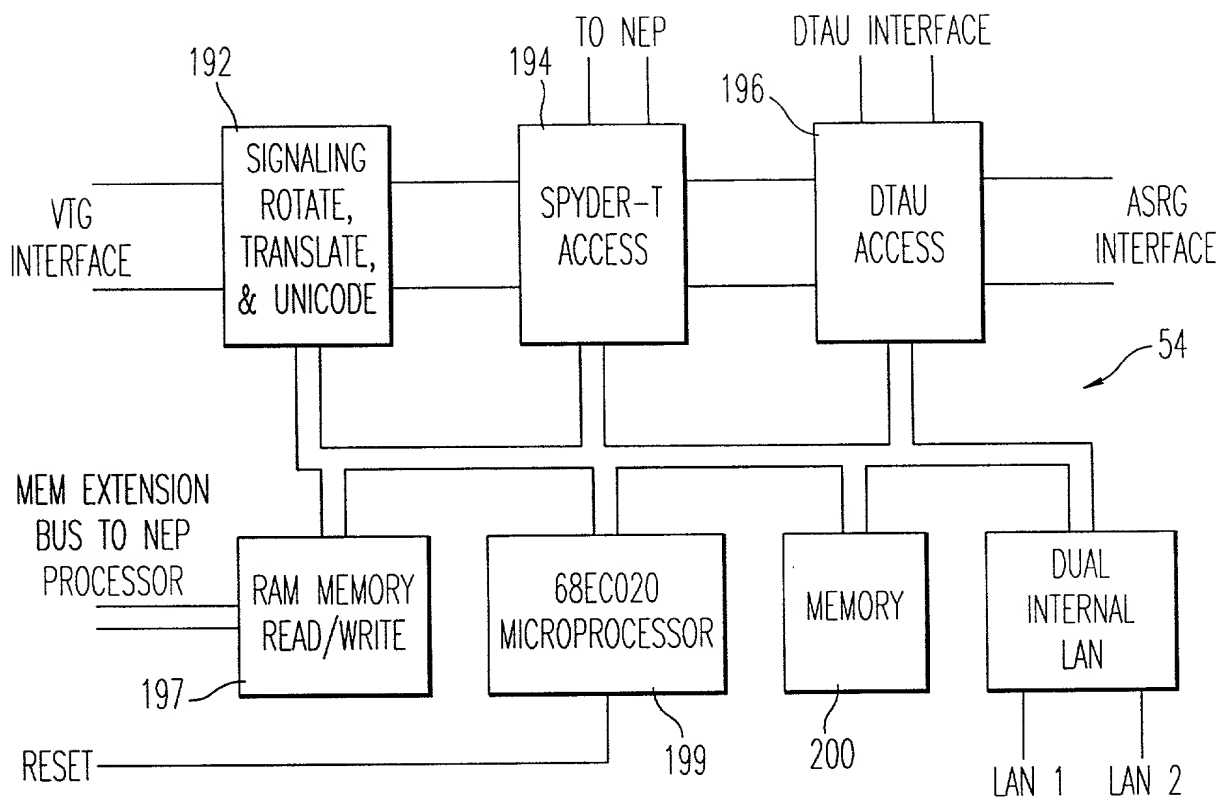


FIG. 16

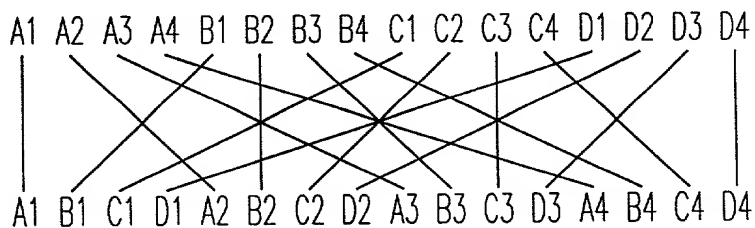


FIG. 17A

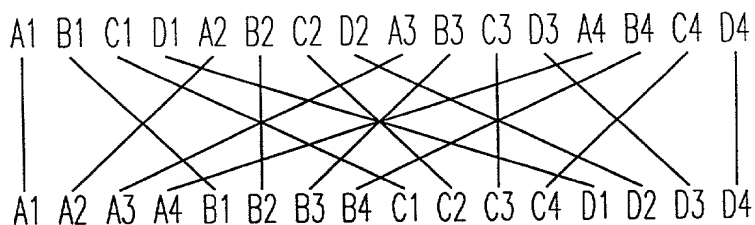


FIG. 17B

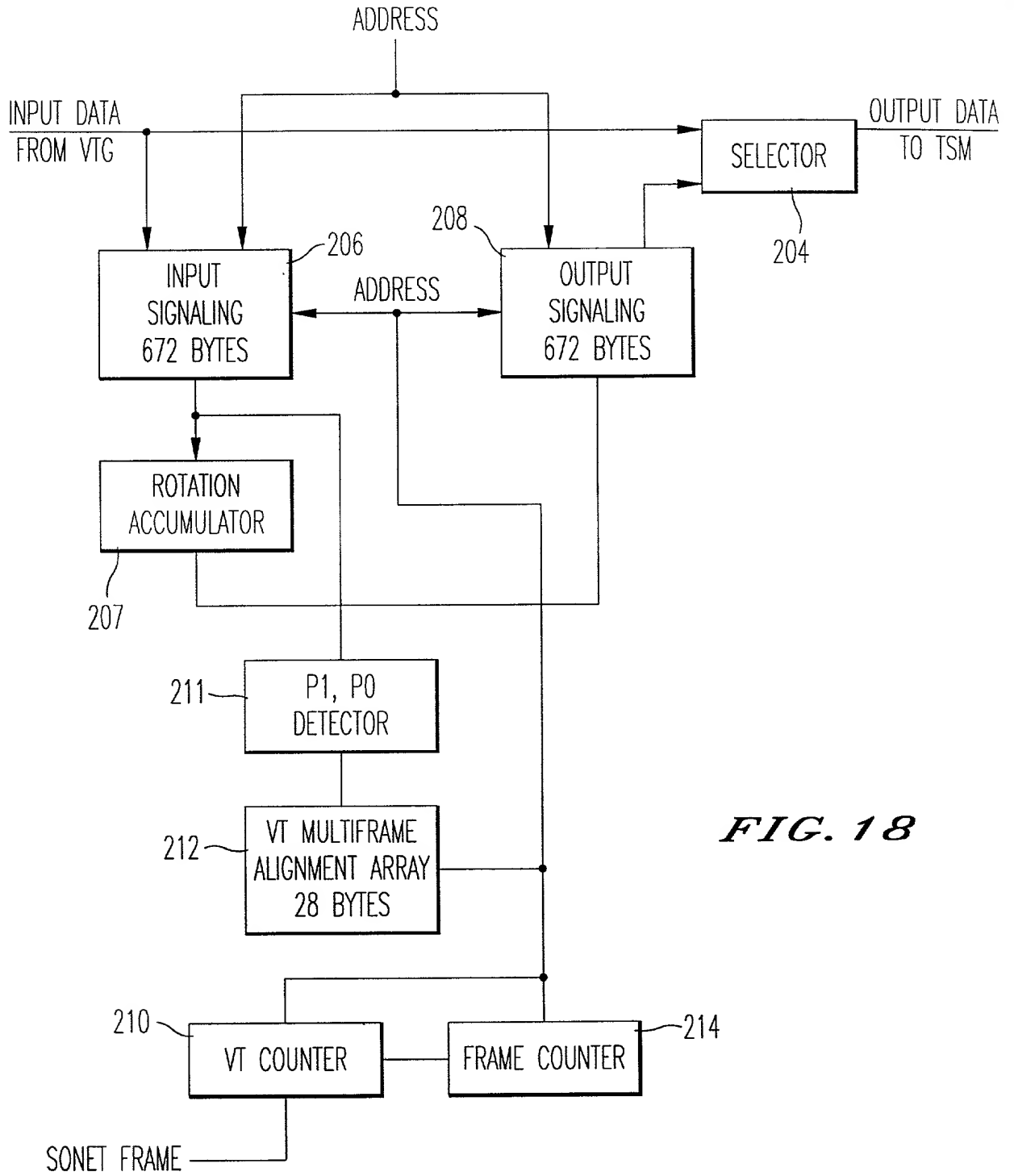


FIG. 18

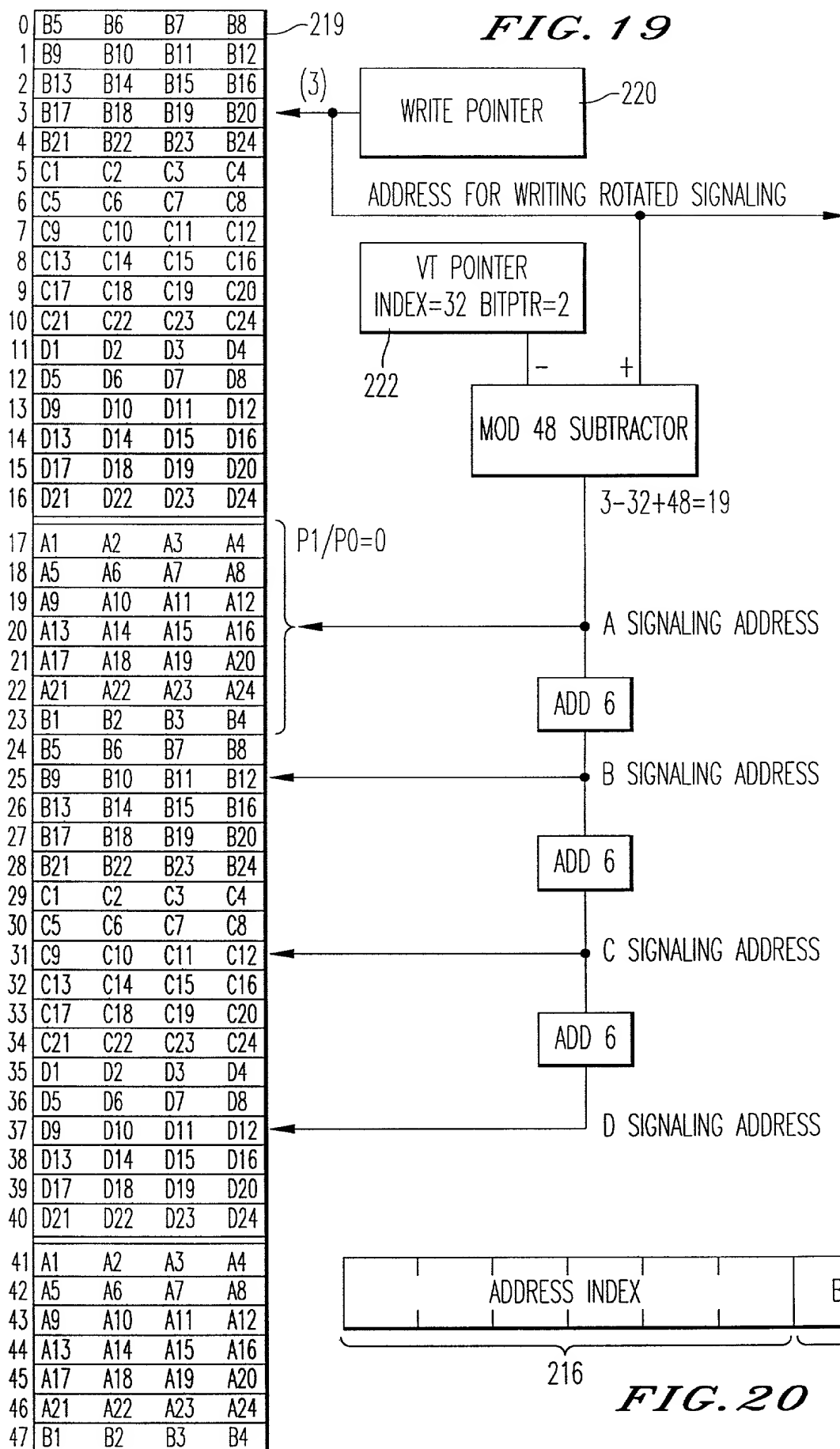


FIG. 20

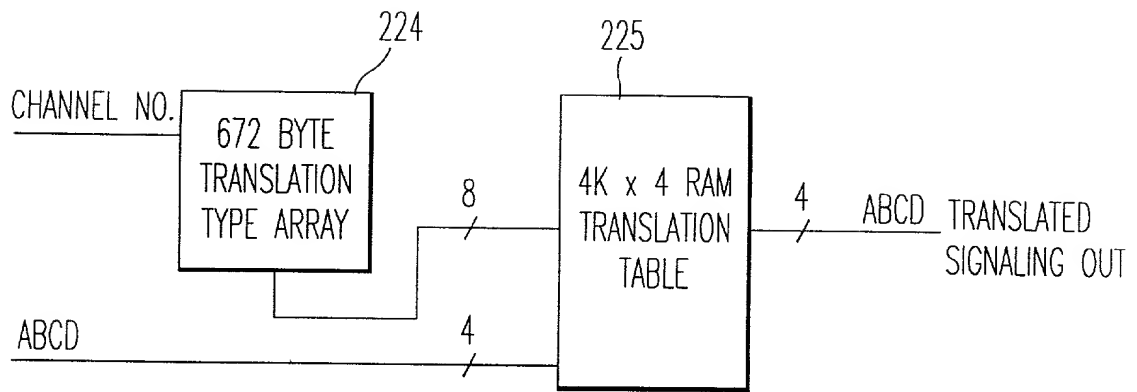


FIG. 21

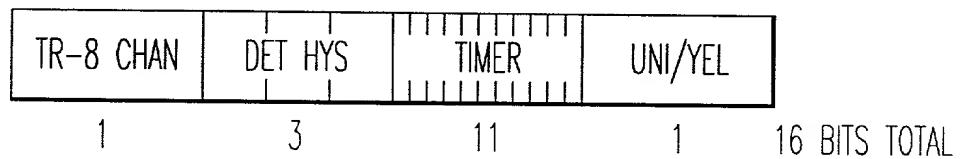


FIG. 22

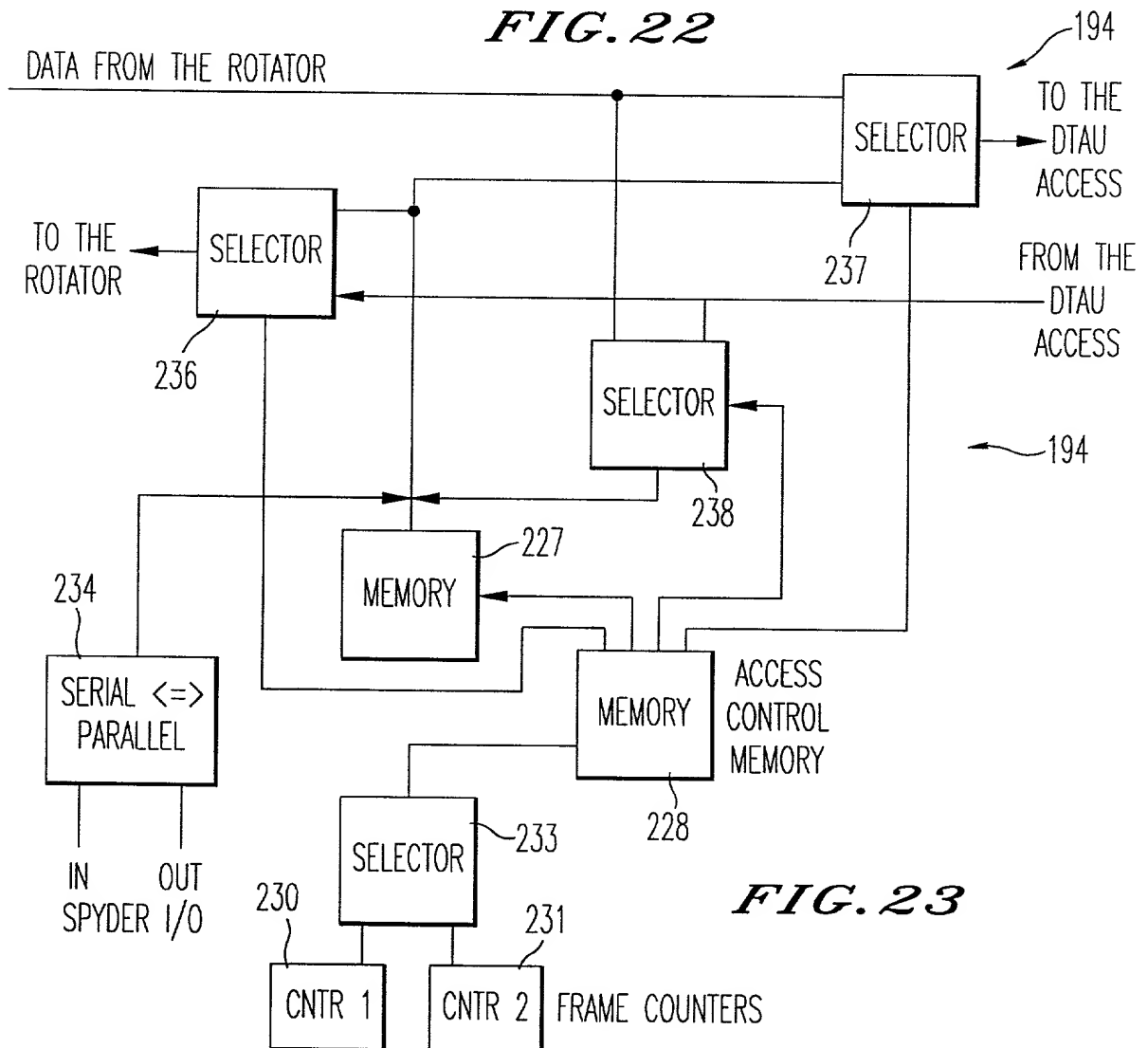


FIG. 23

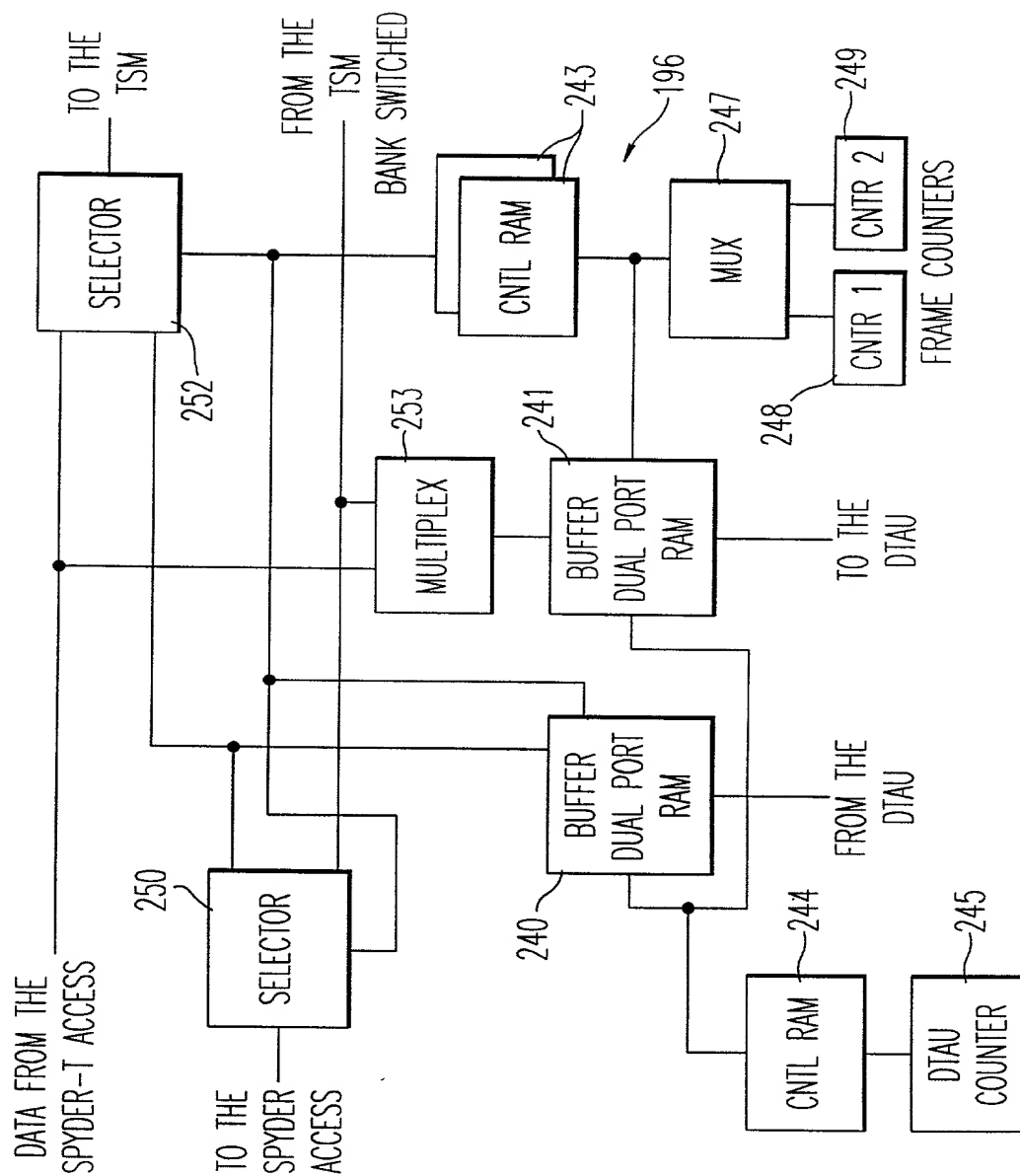


FIG. 24

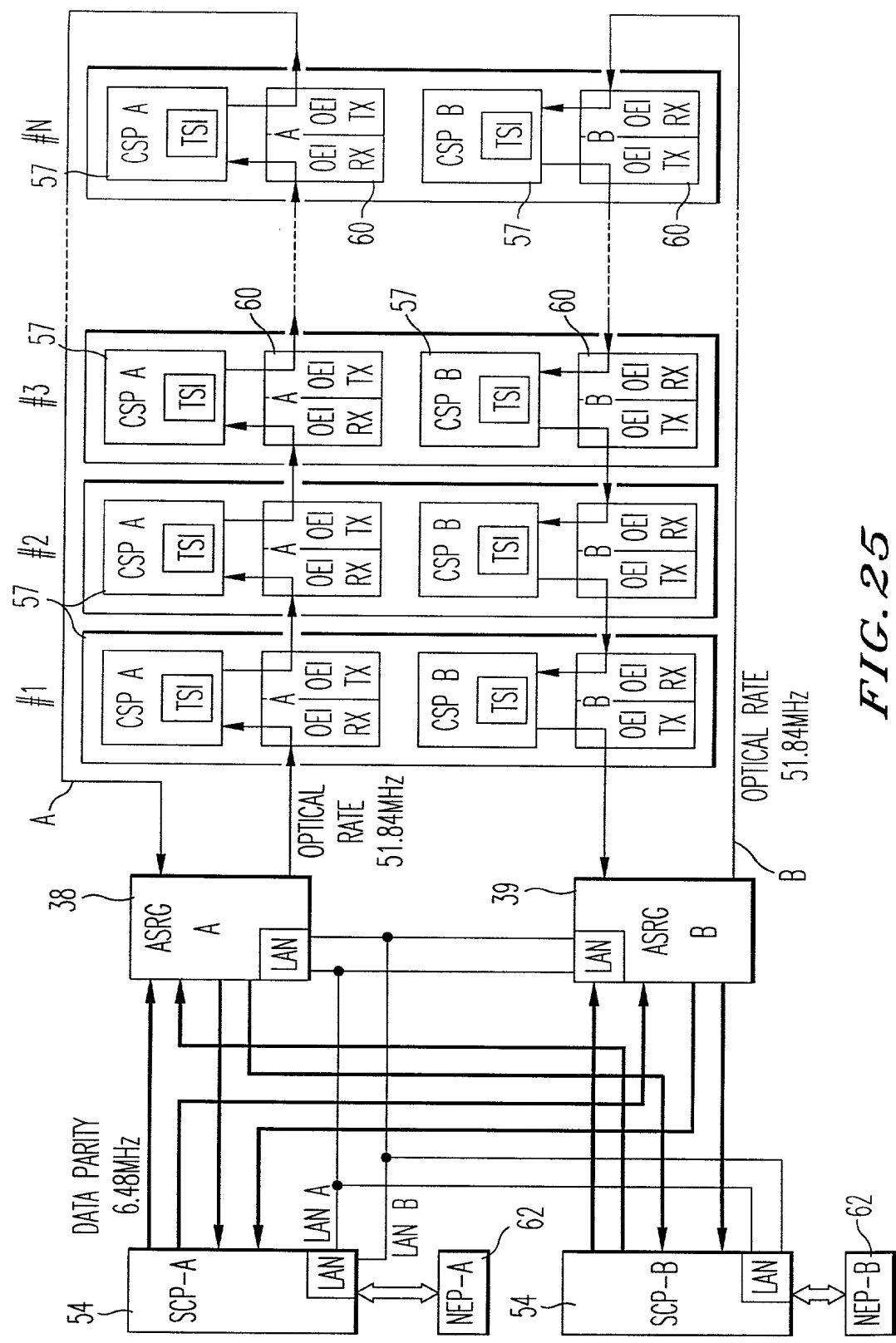


FIG. 25

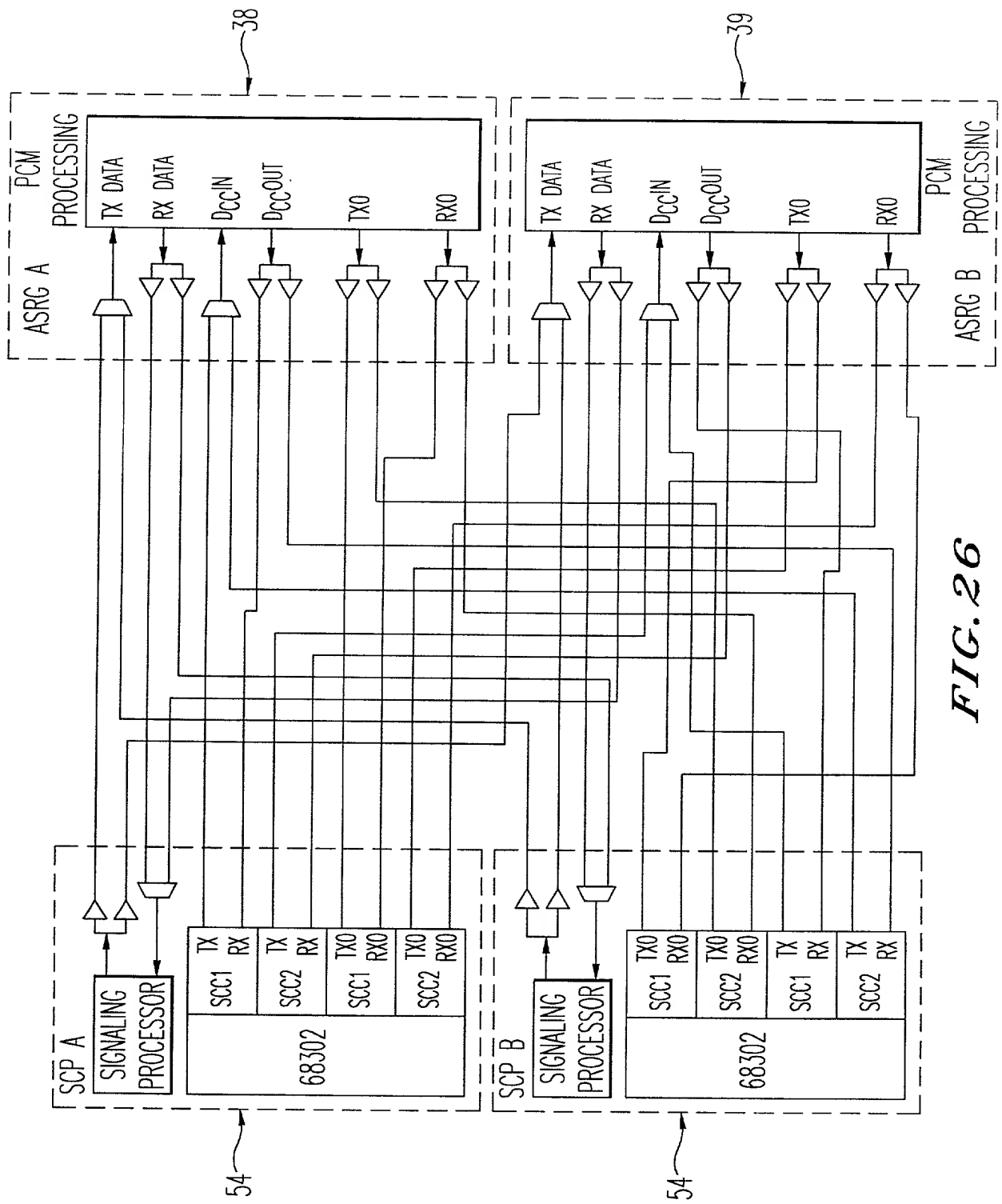


FIG. 26

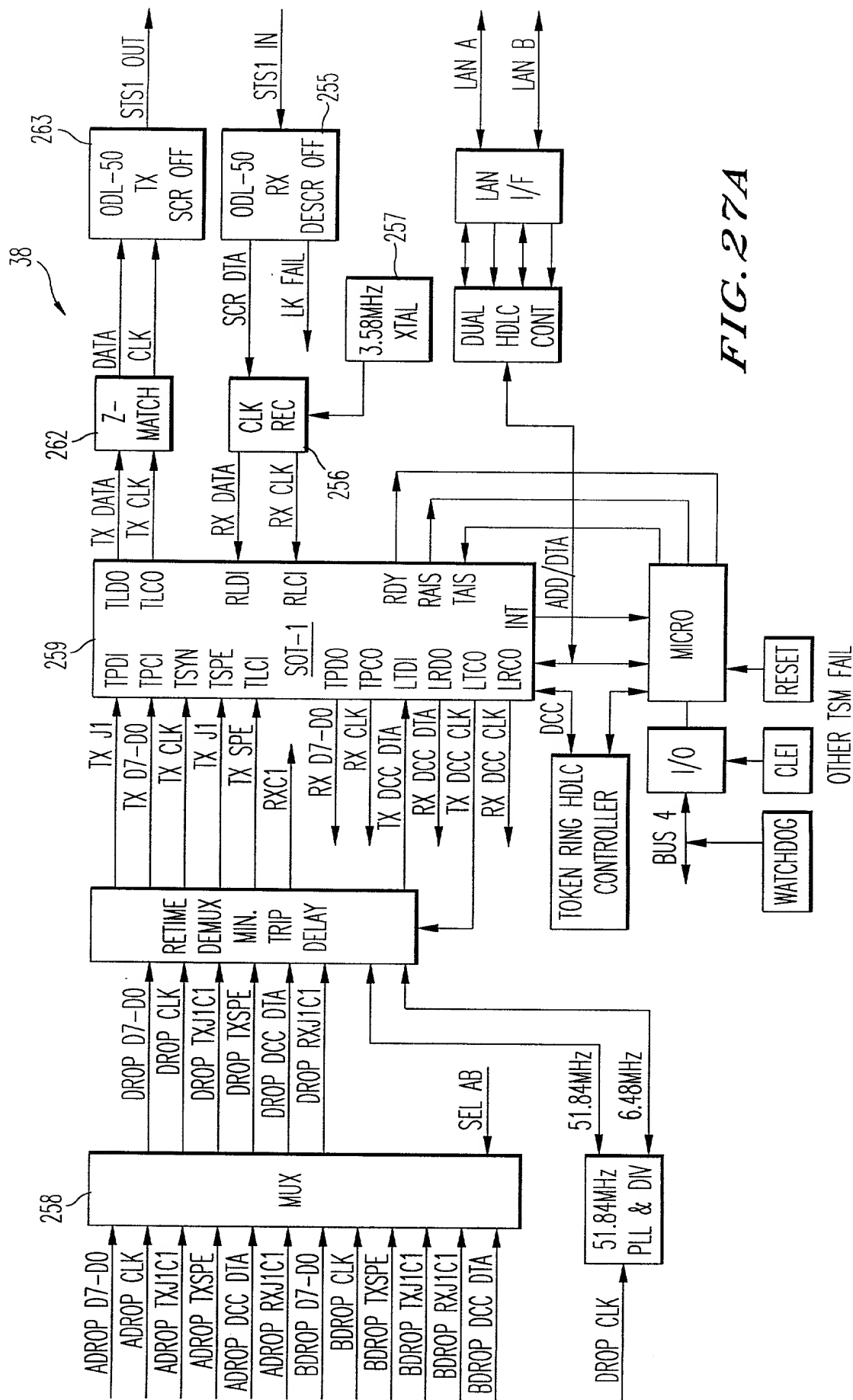


FIG. 27A

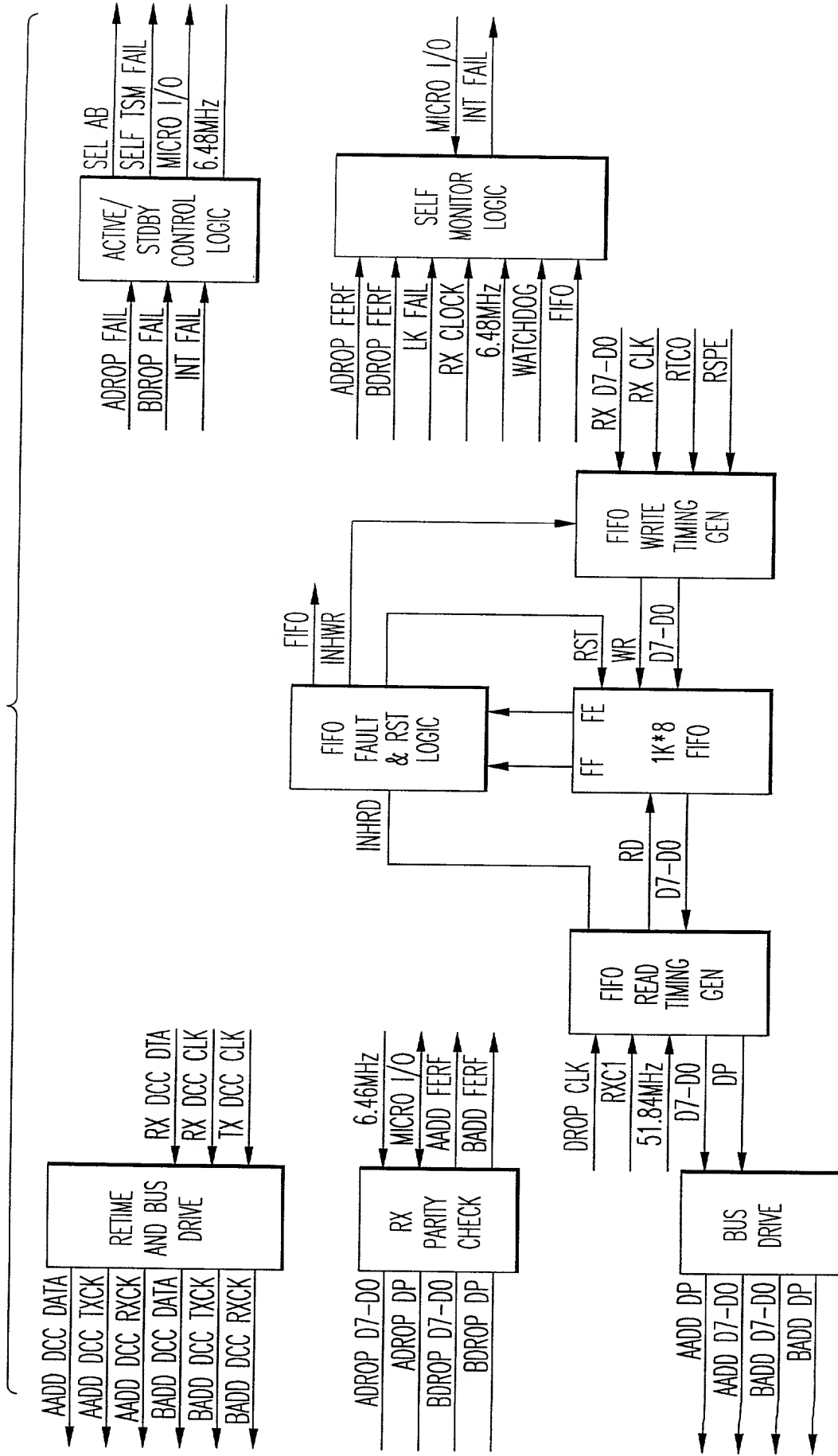


FIG. 27B

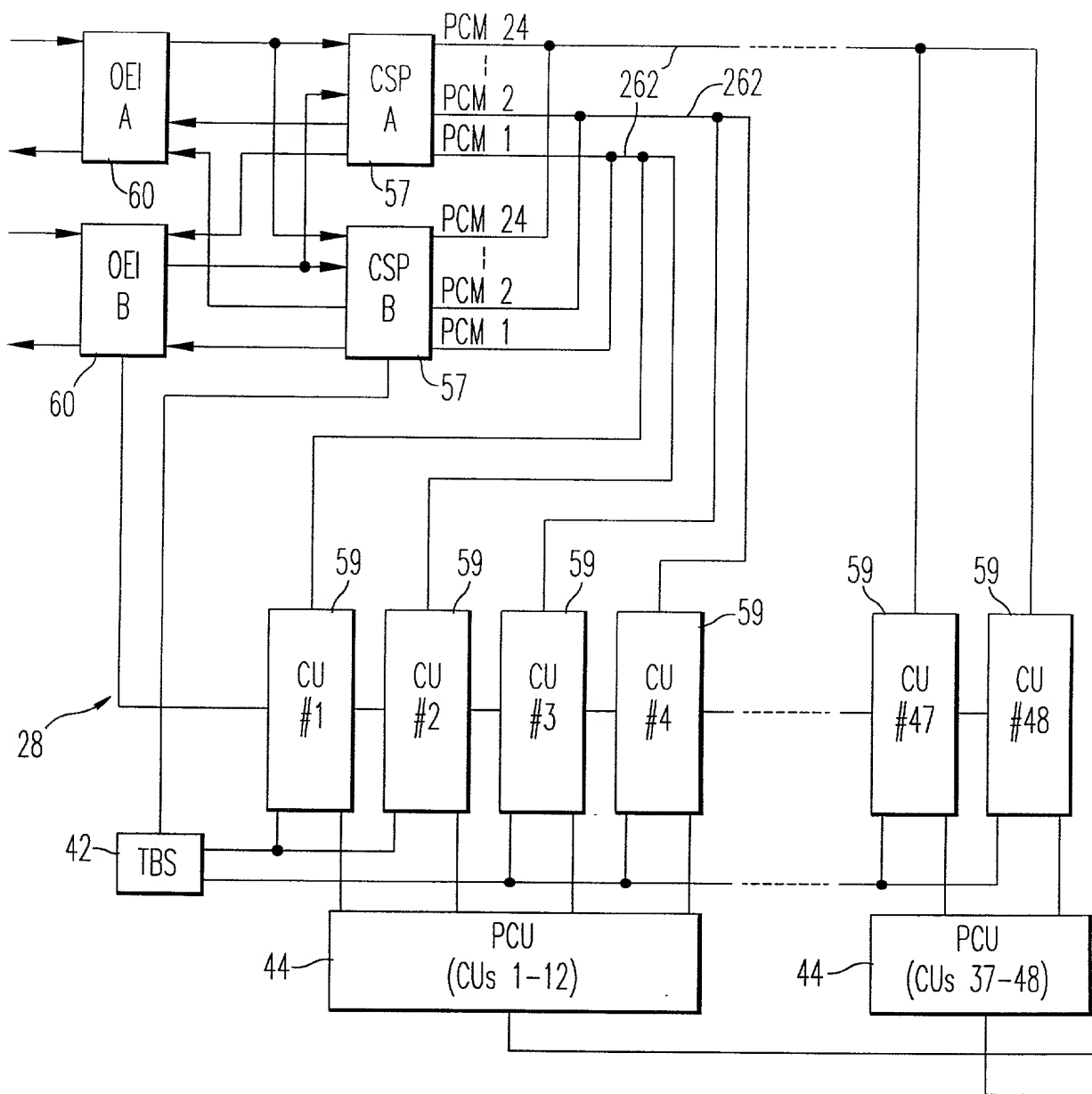


FIG. 28

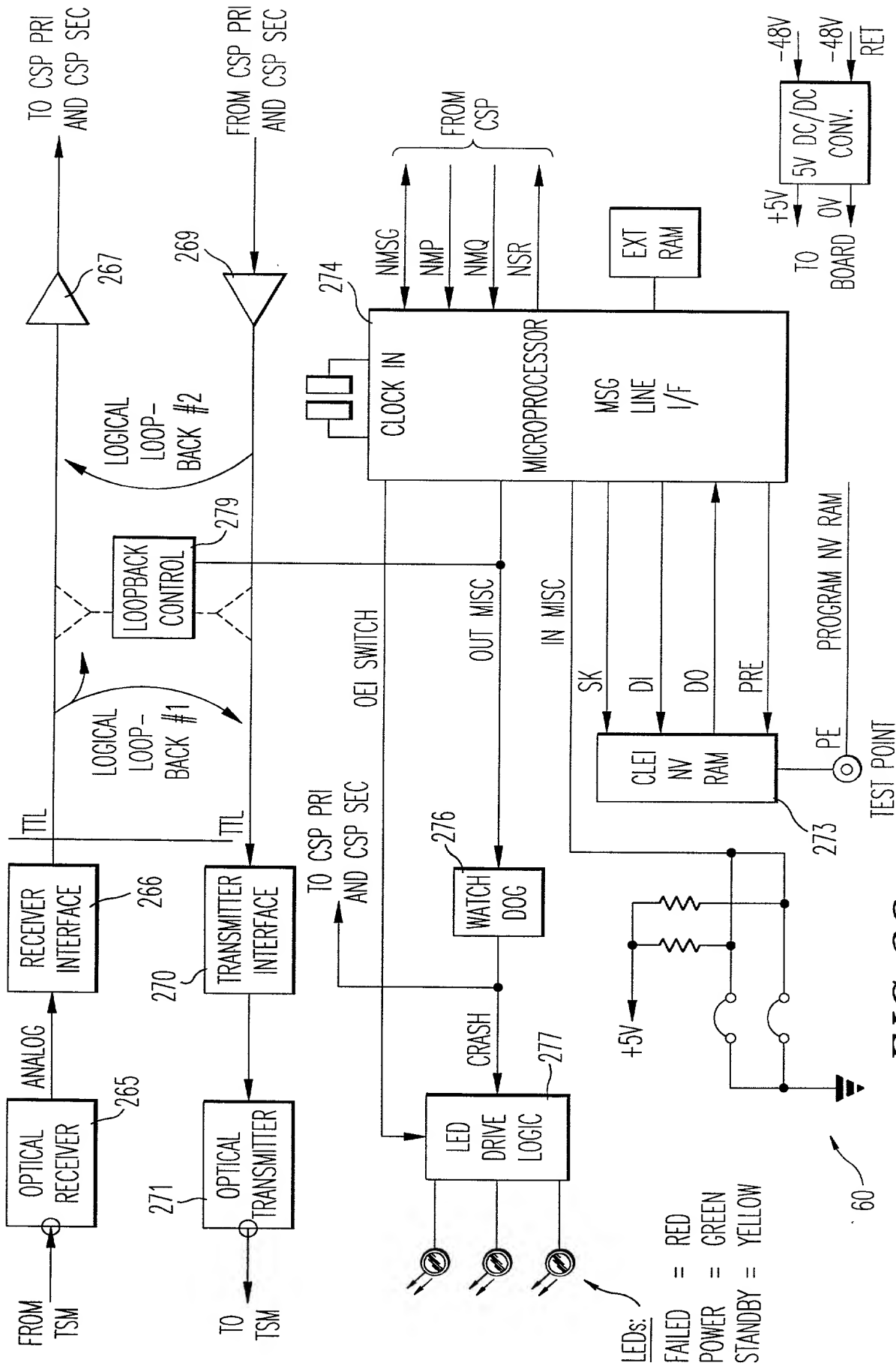


FIG. 29

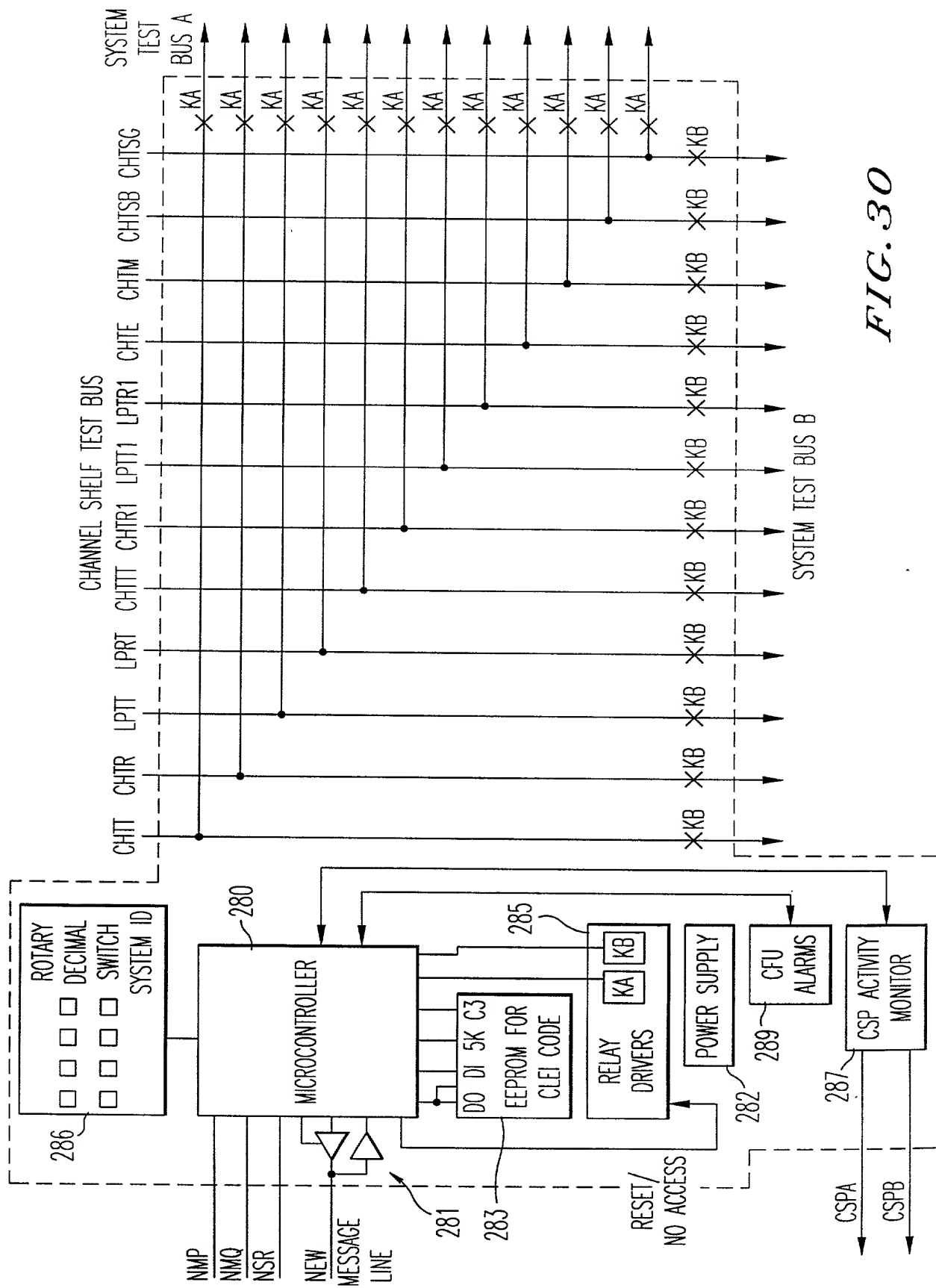


FIG. 30

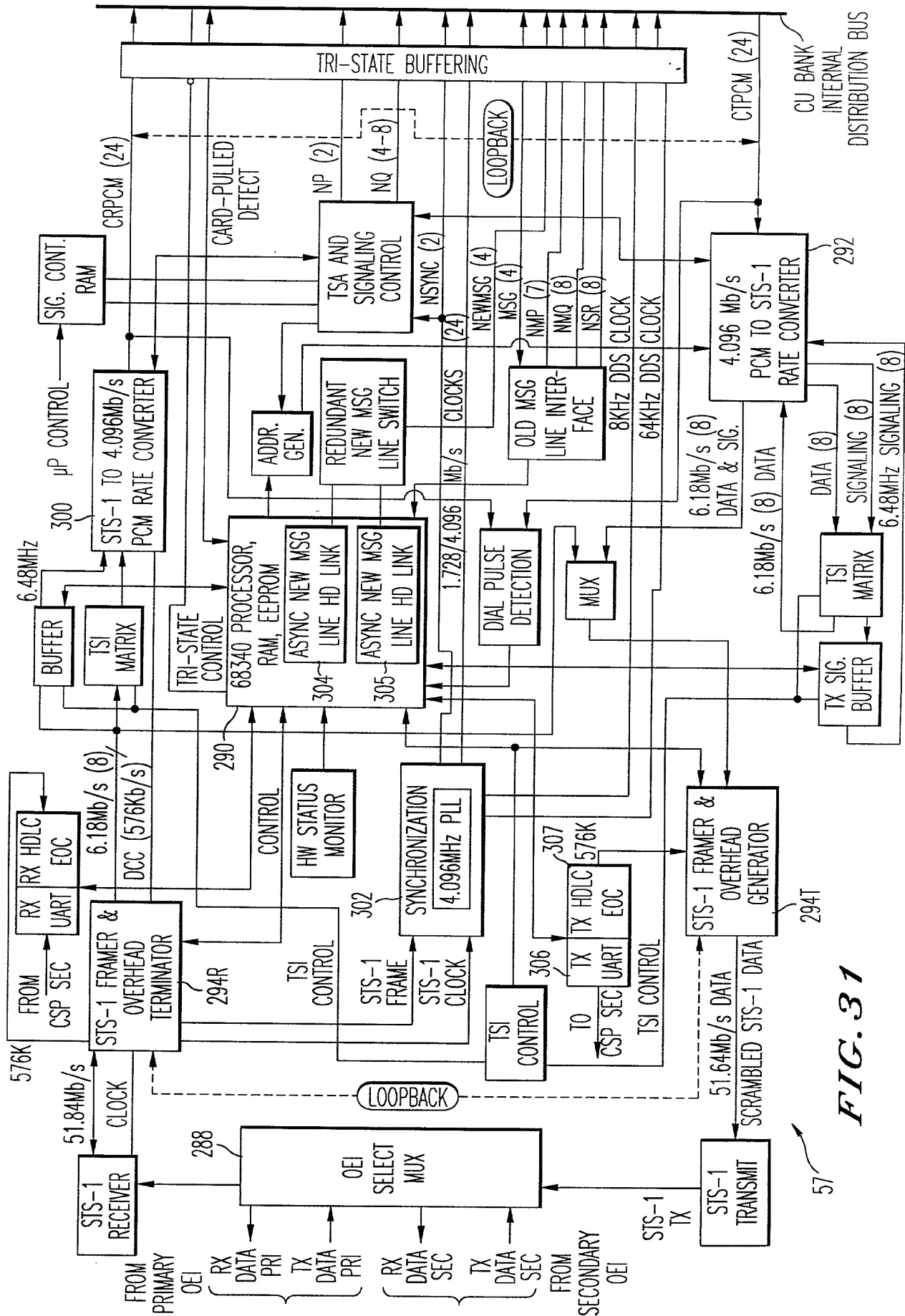


FIG. 31

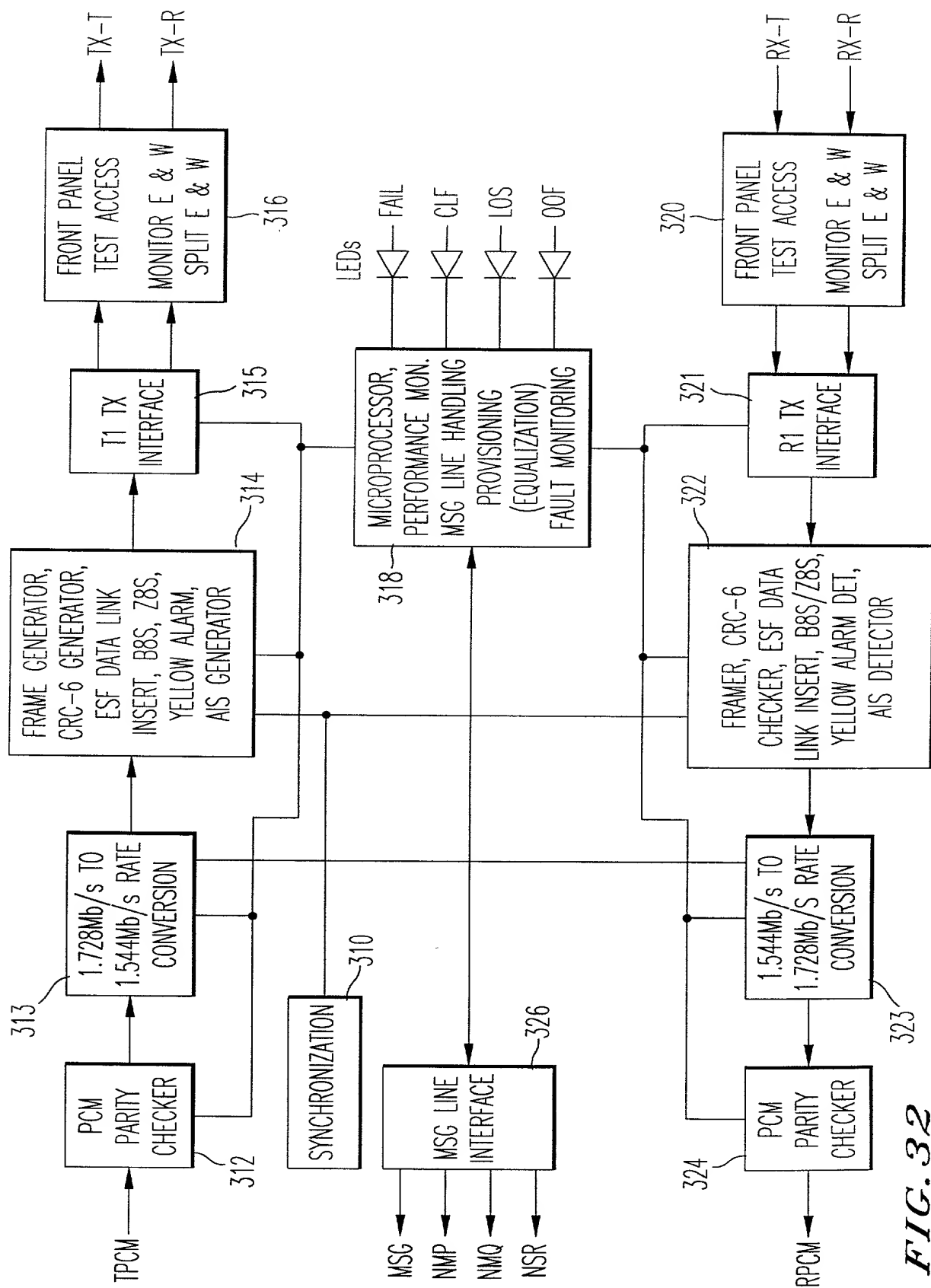


FIG. 32

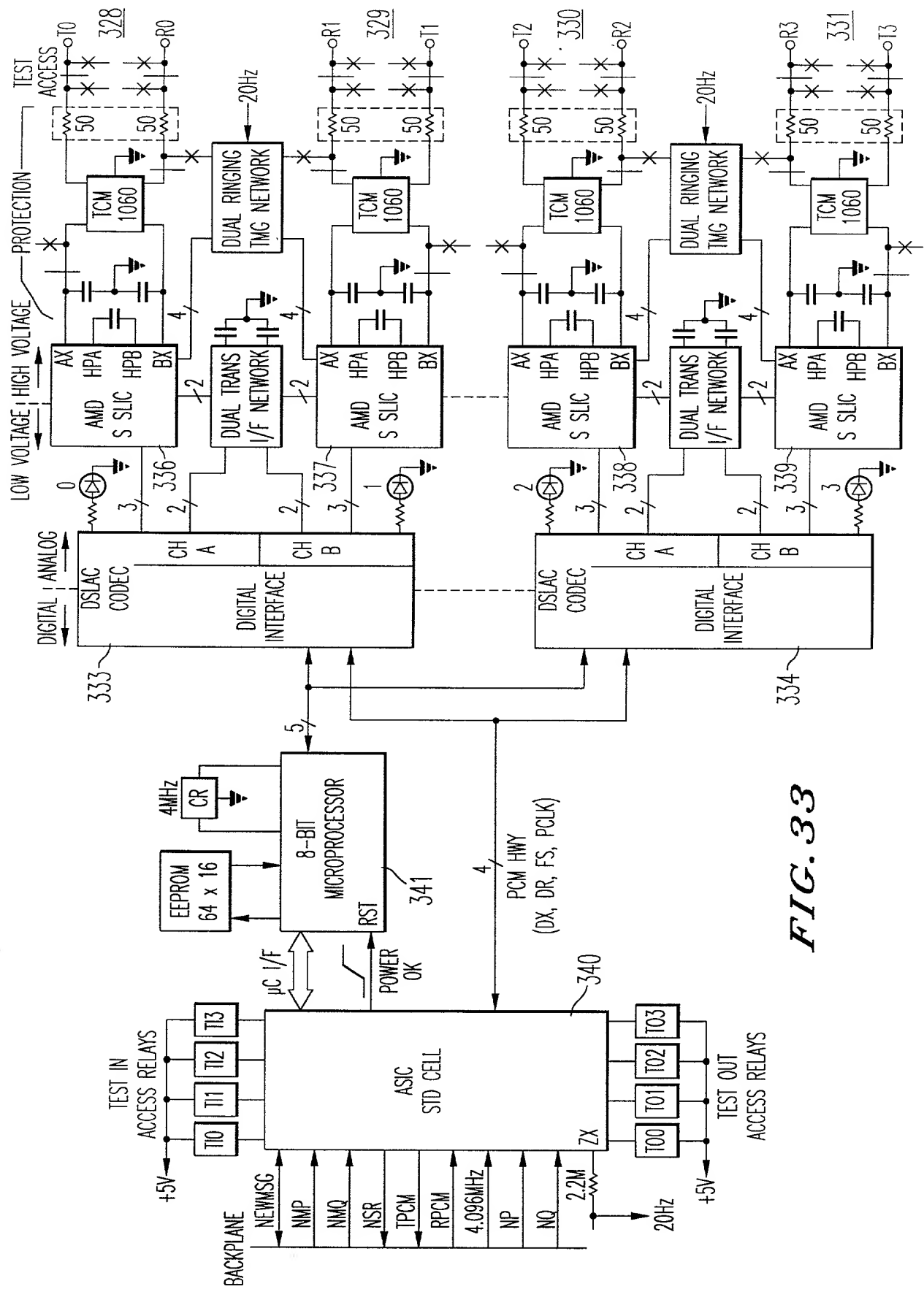


FIG. 33

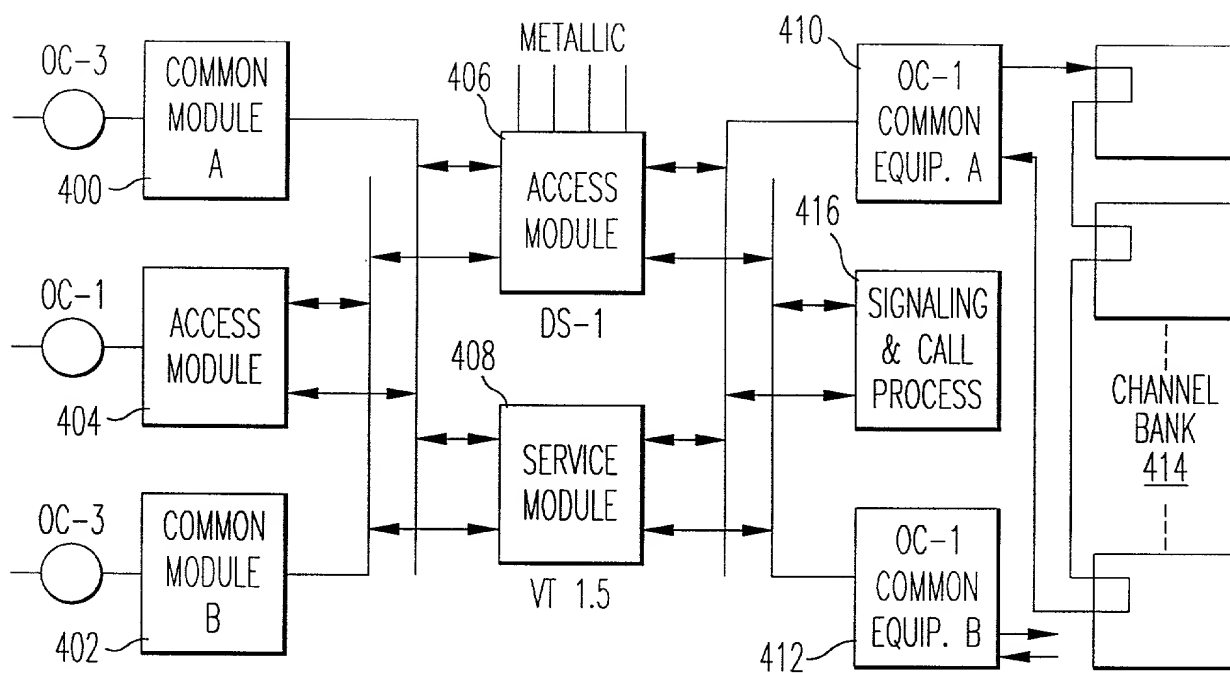


FIG. 34

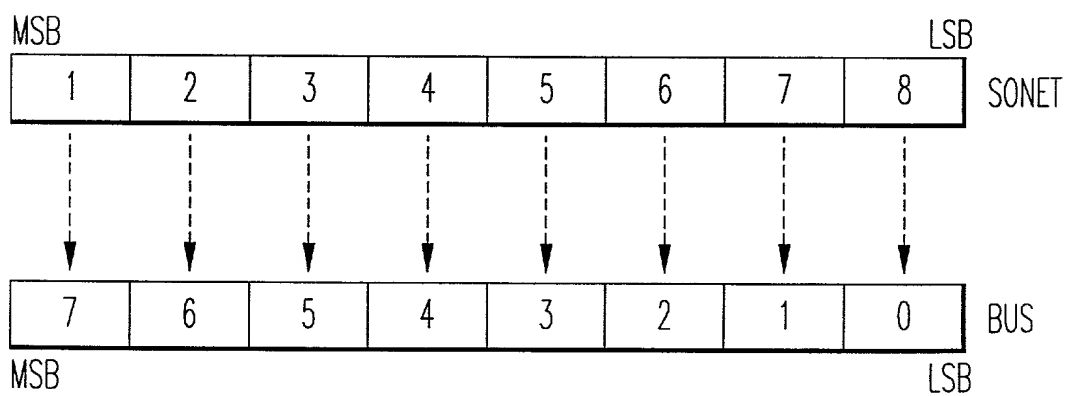
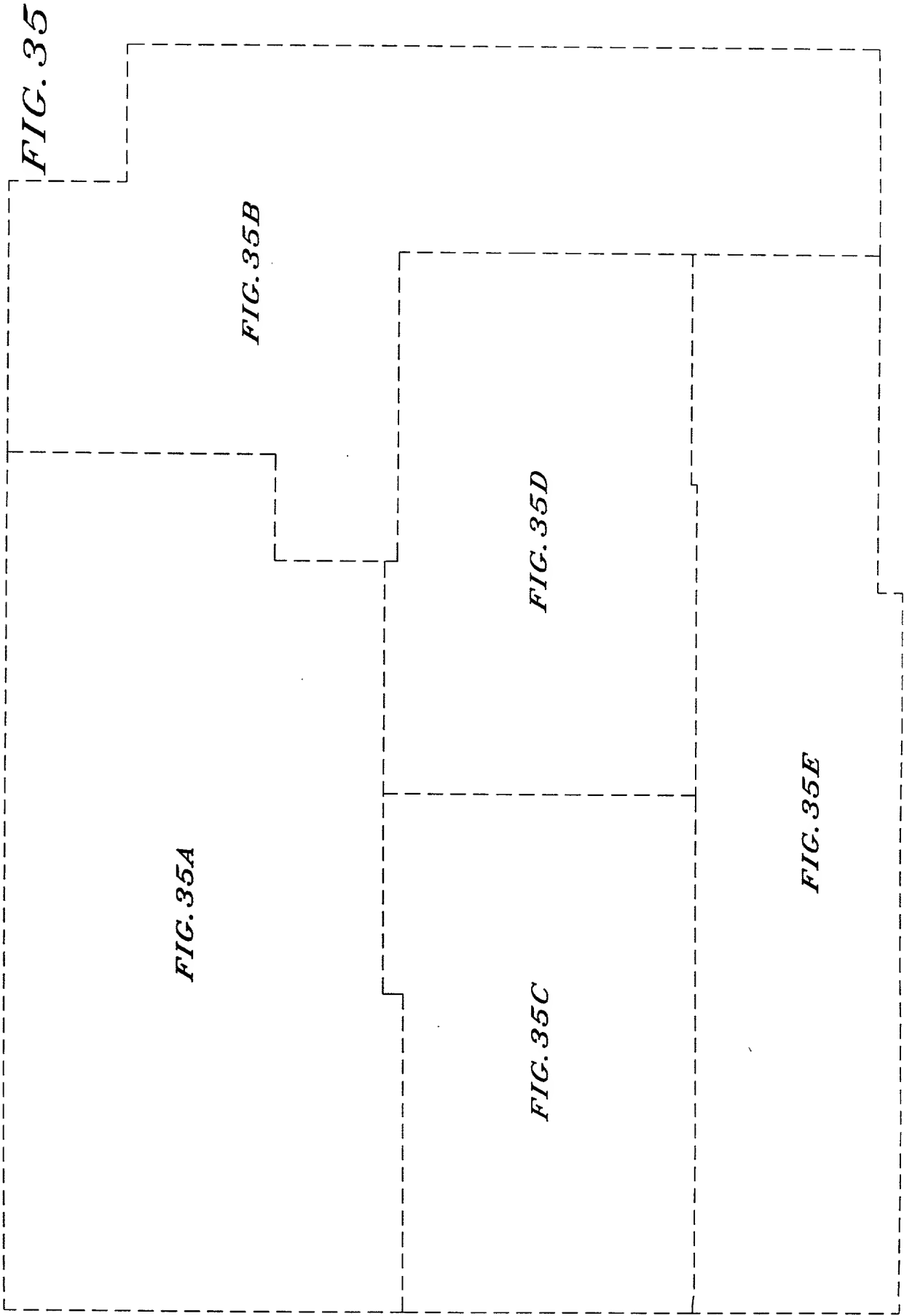
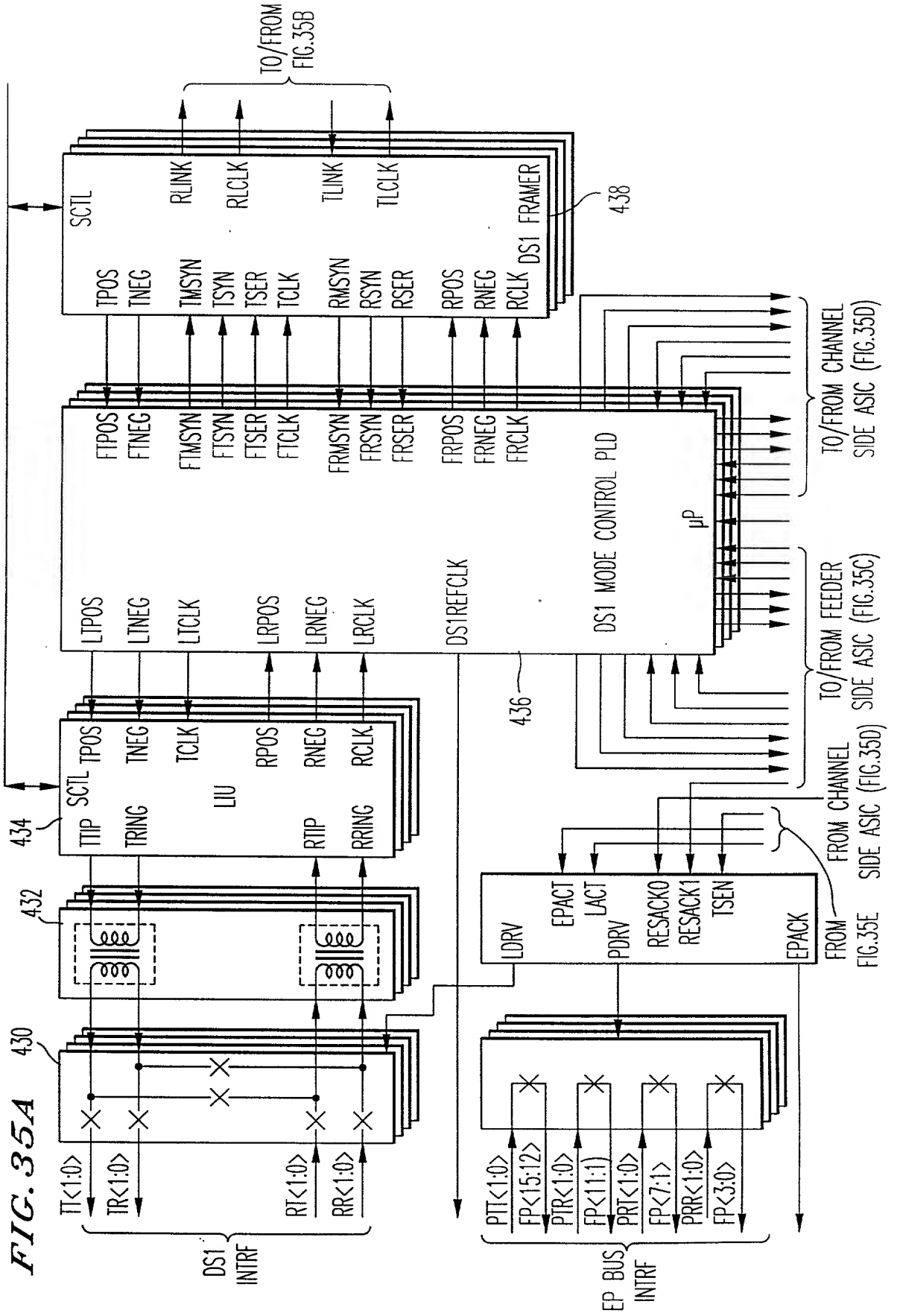


FIG. 37





TOP SECRET 93333560

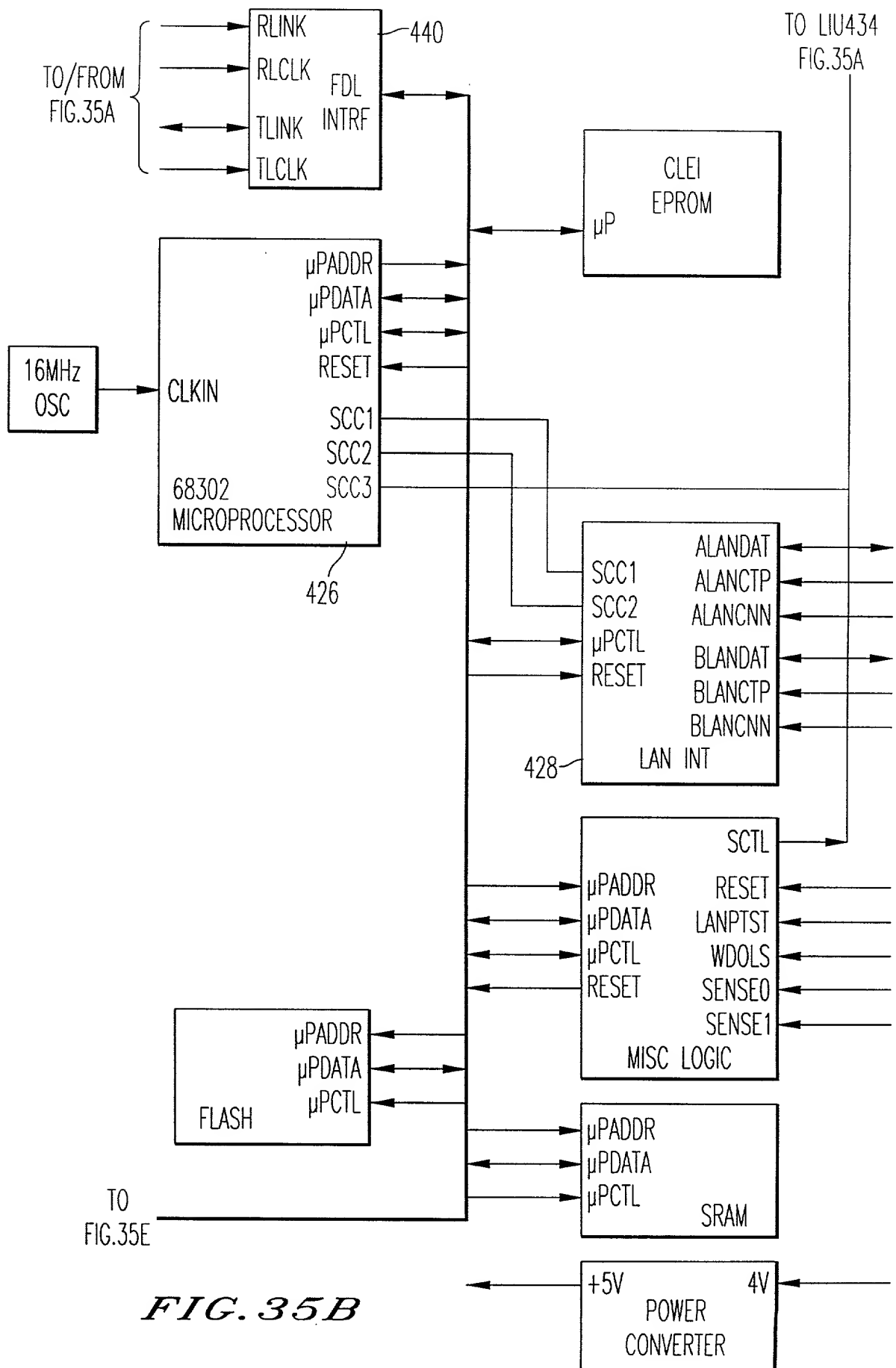


FIG. 35B

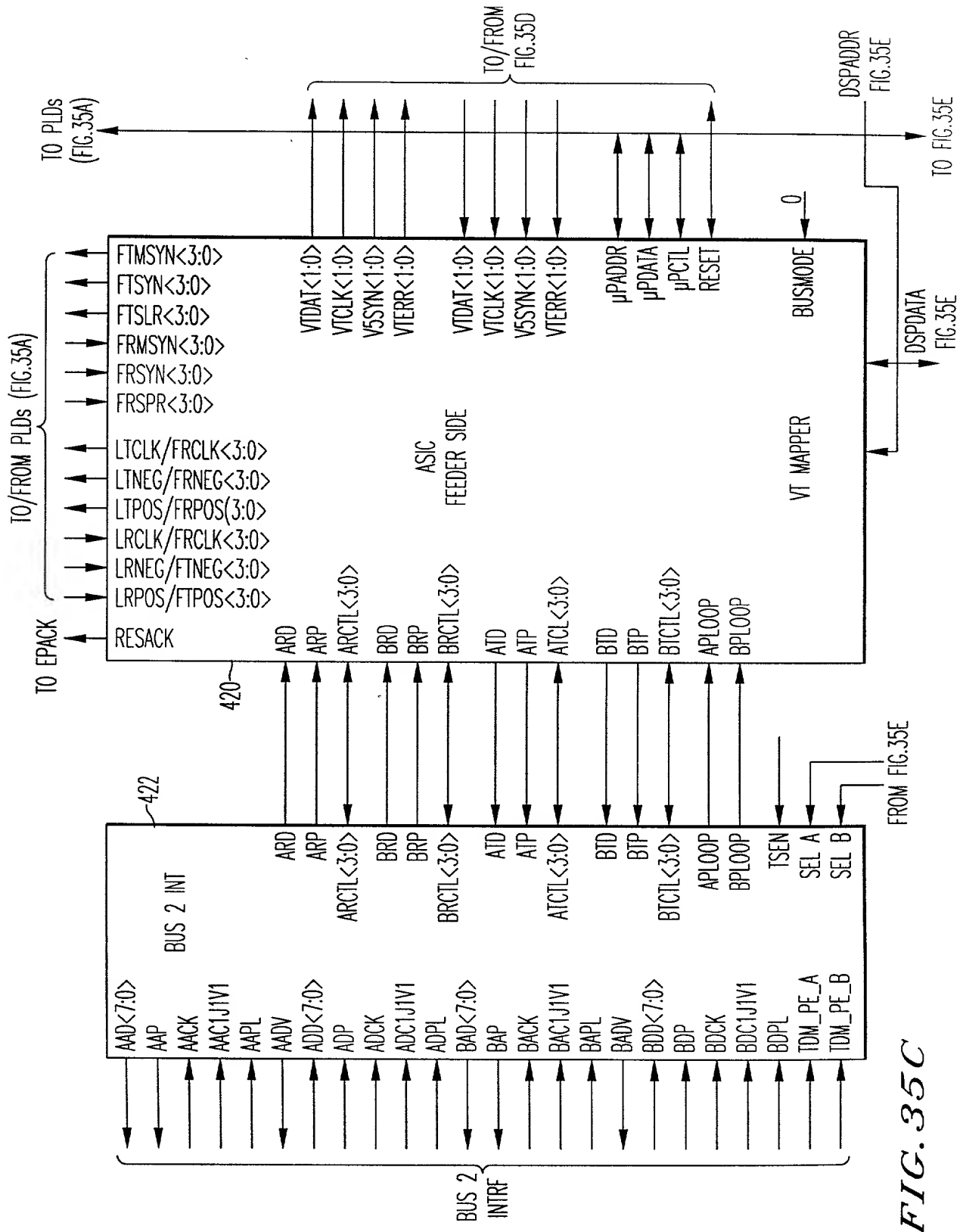
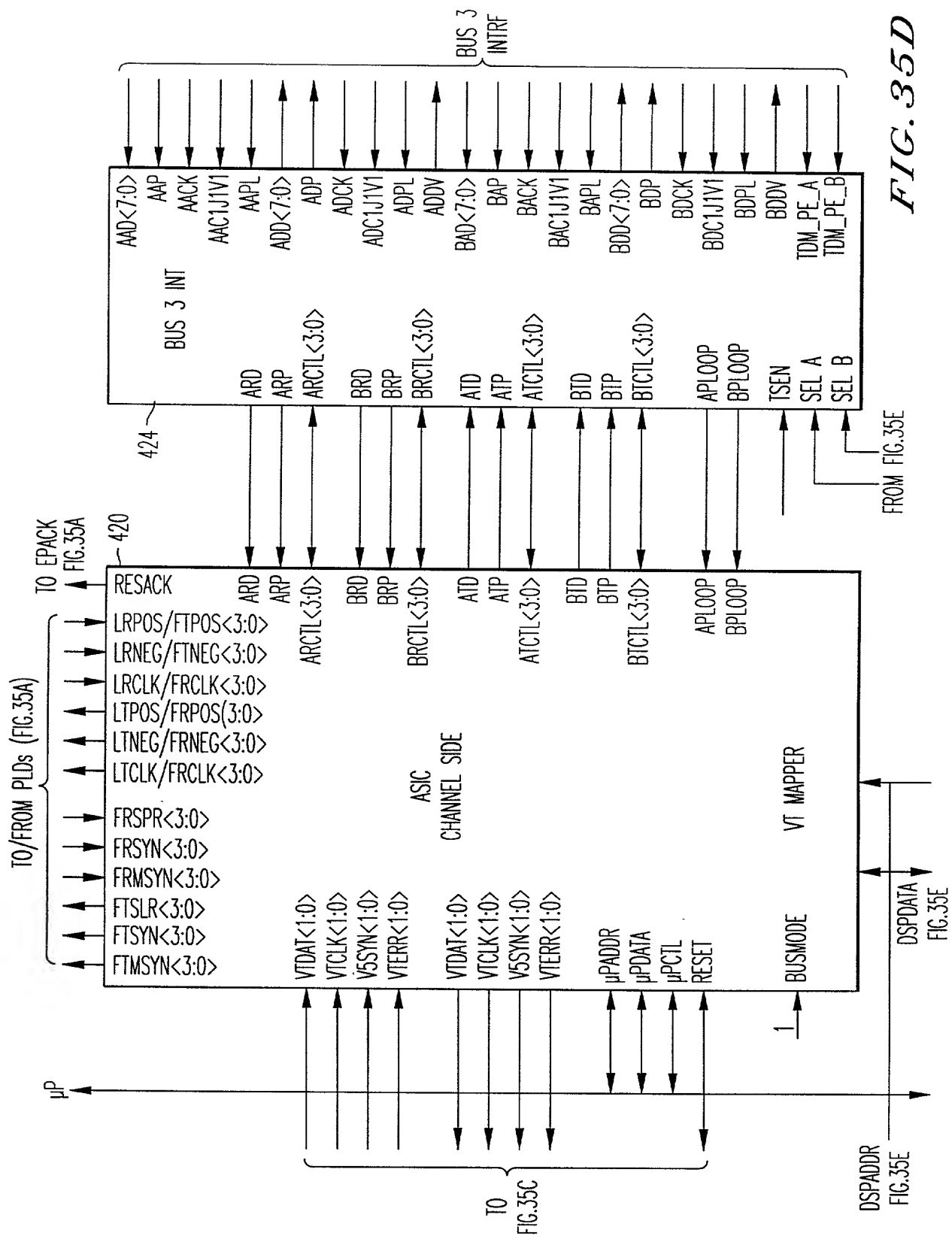


FIG. 35C



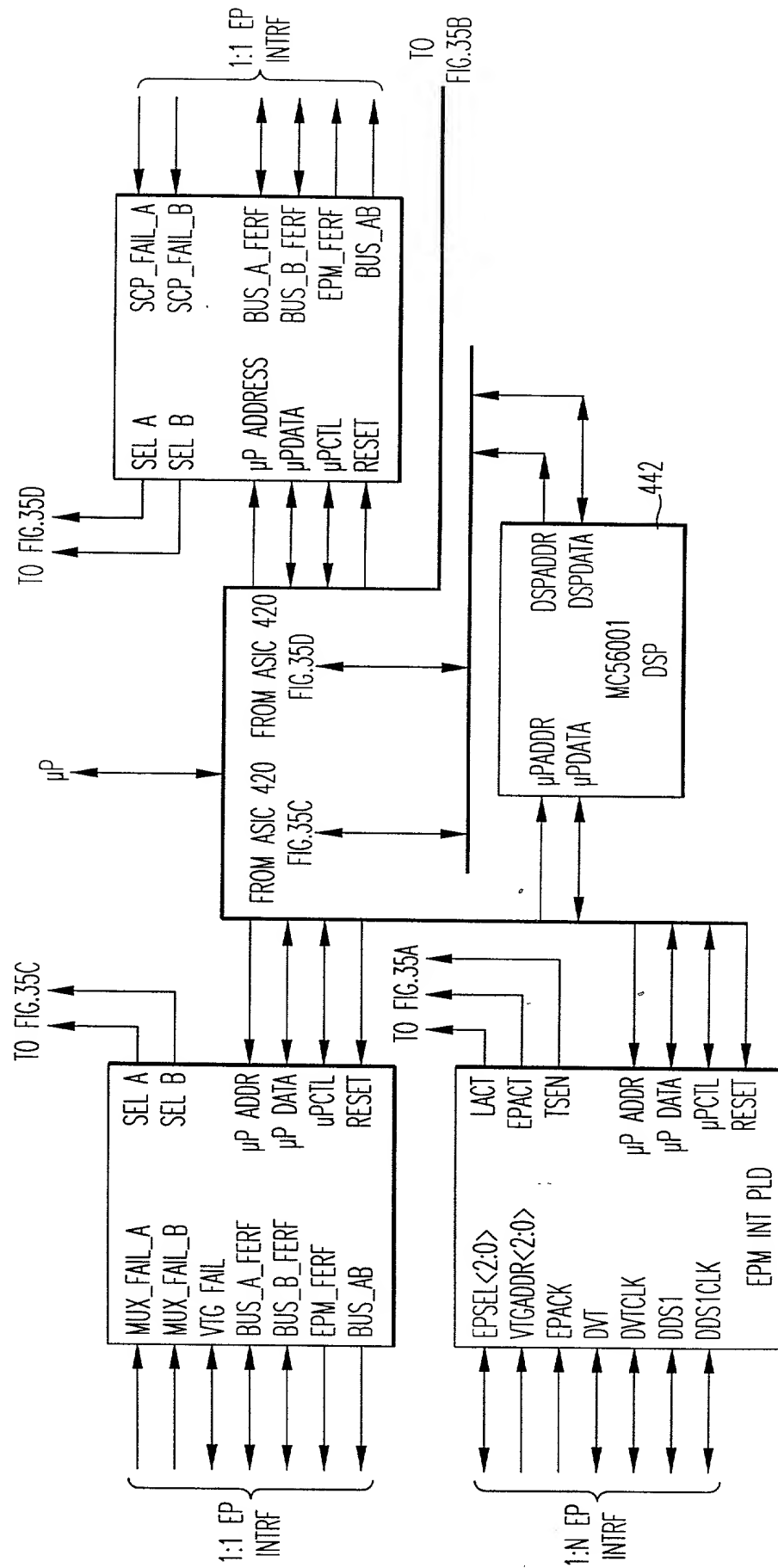


FIG. 35E

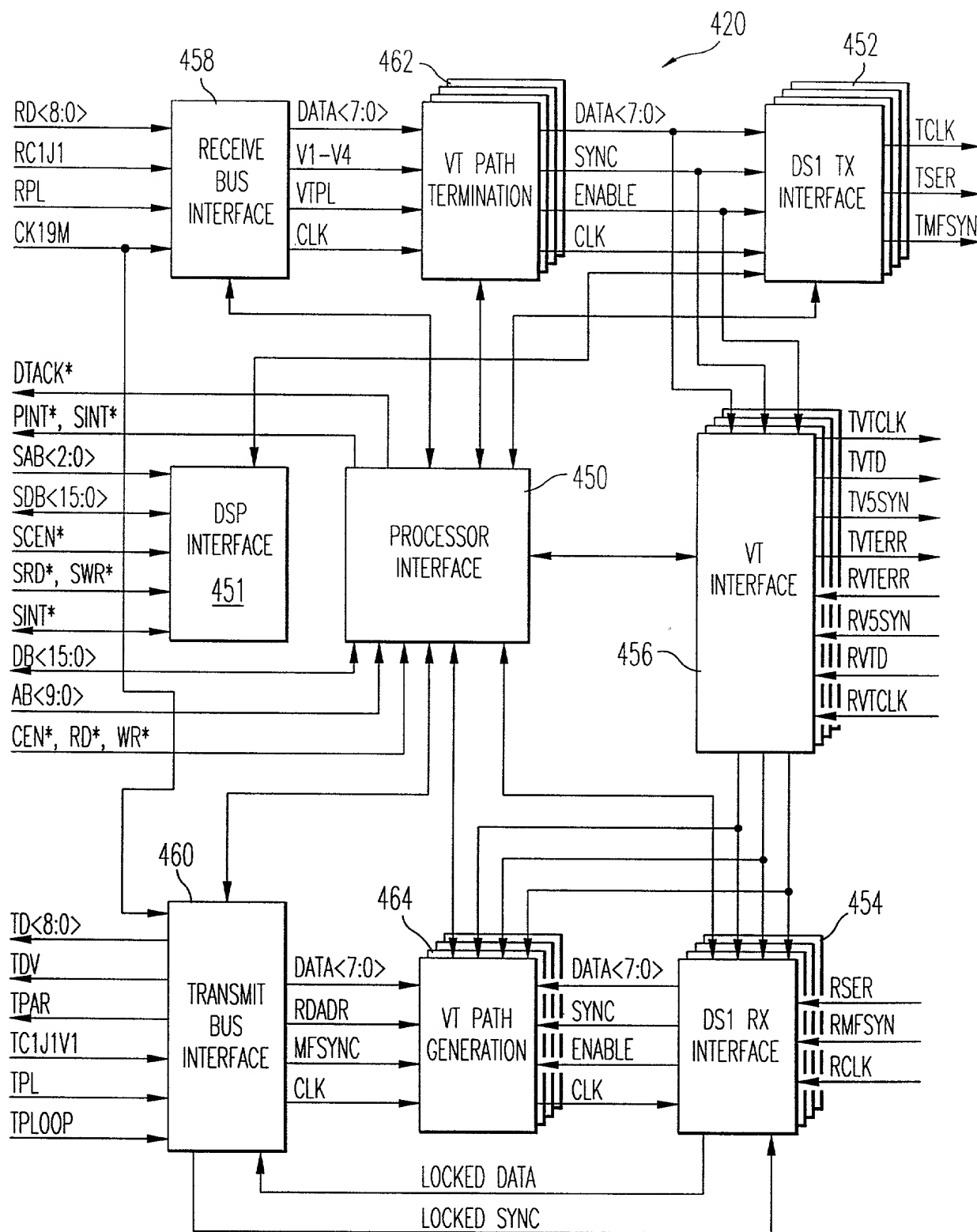


FIG. 36

FIG. 38

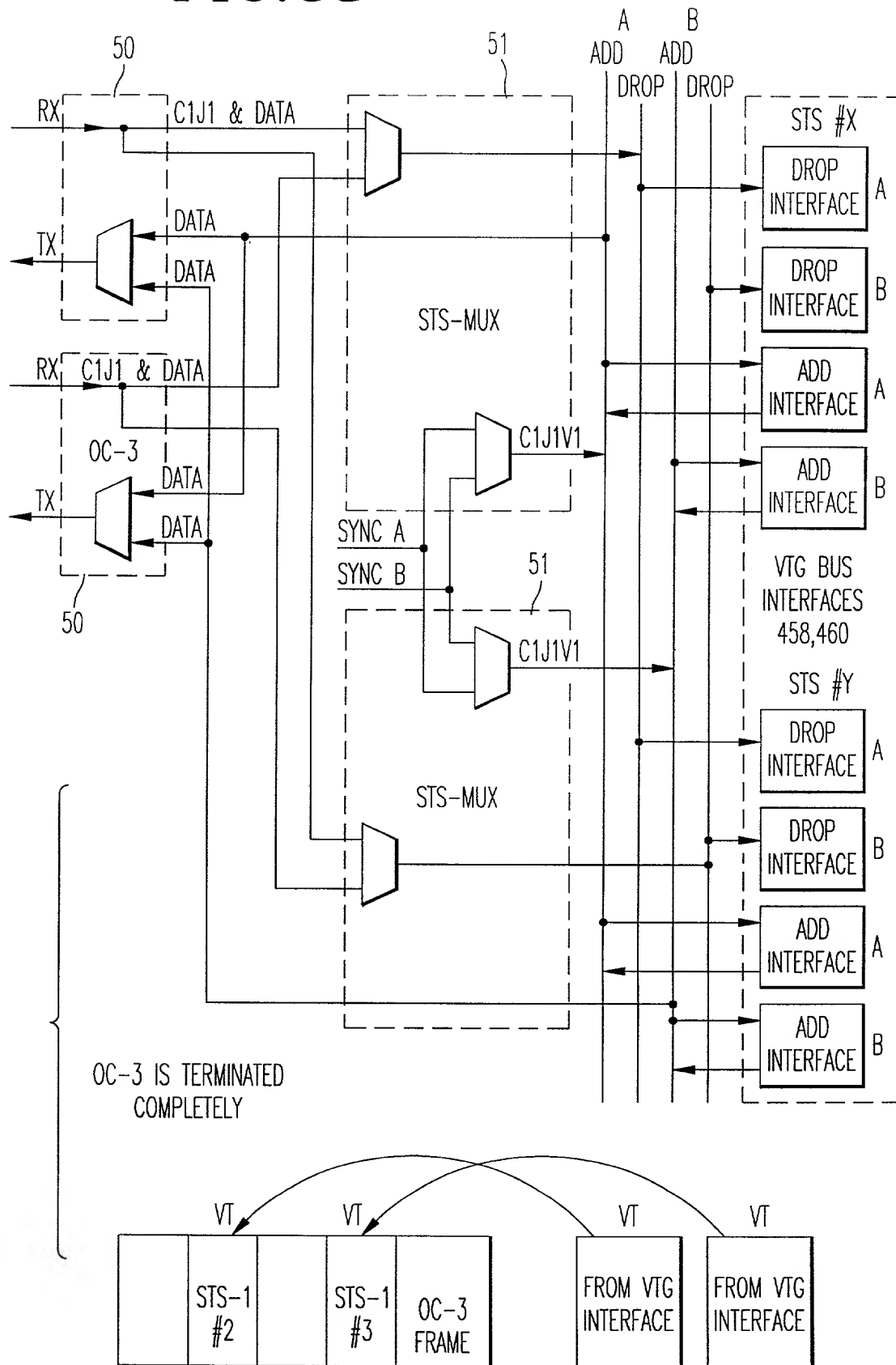


FIG. 40

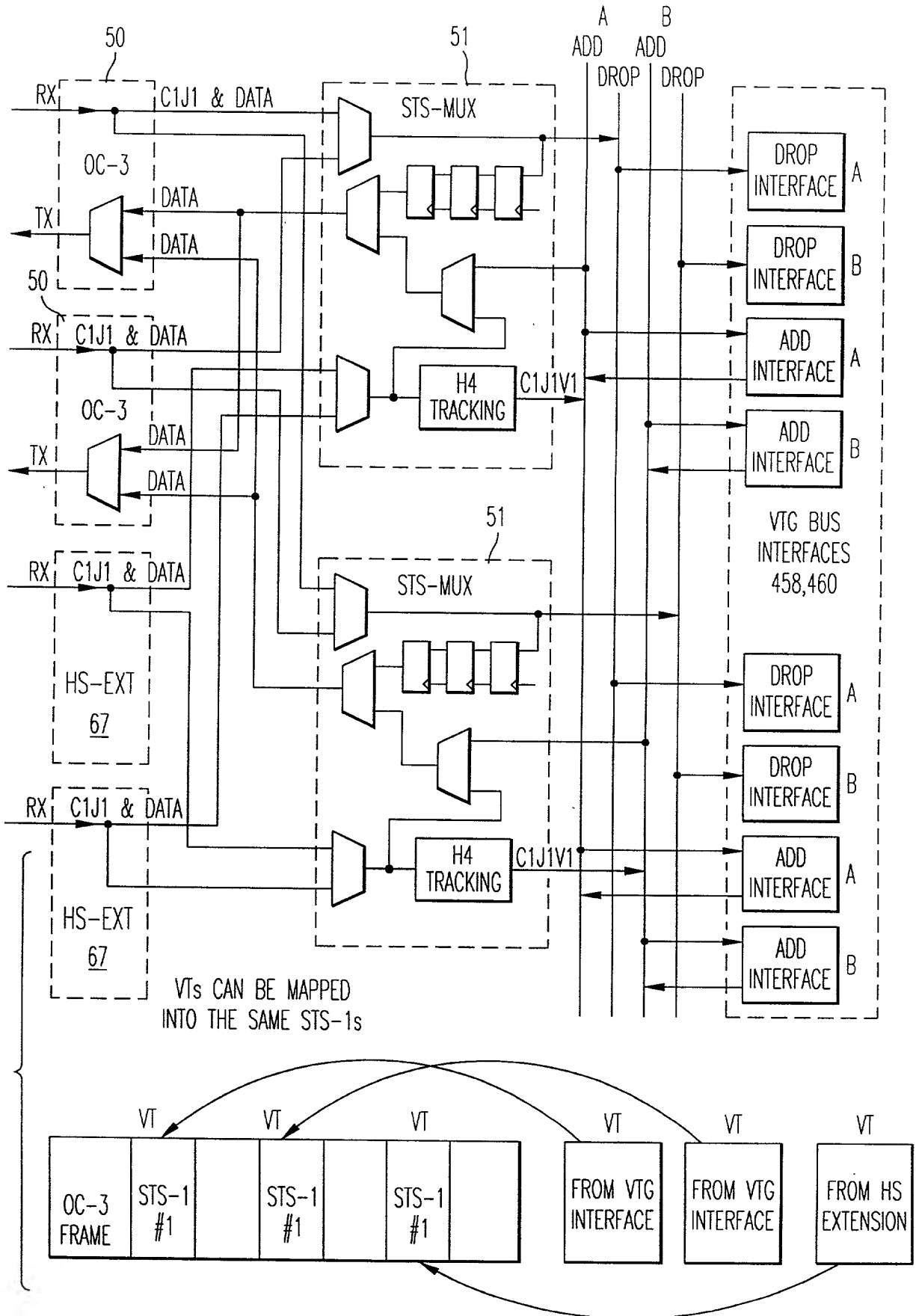
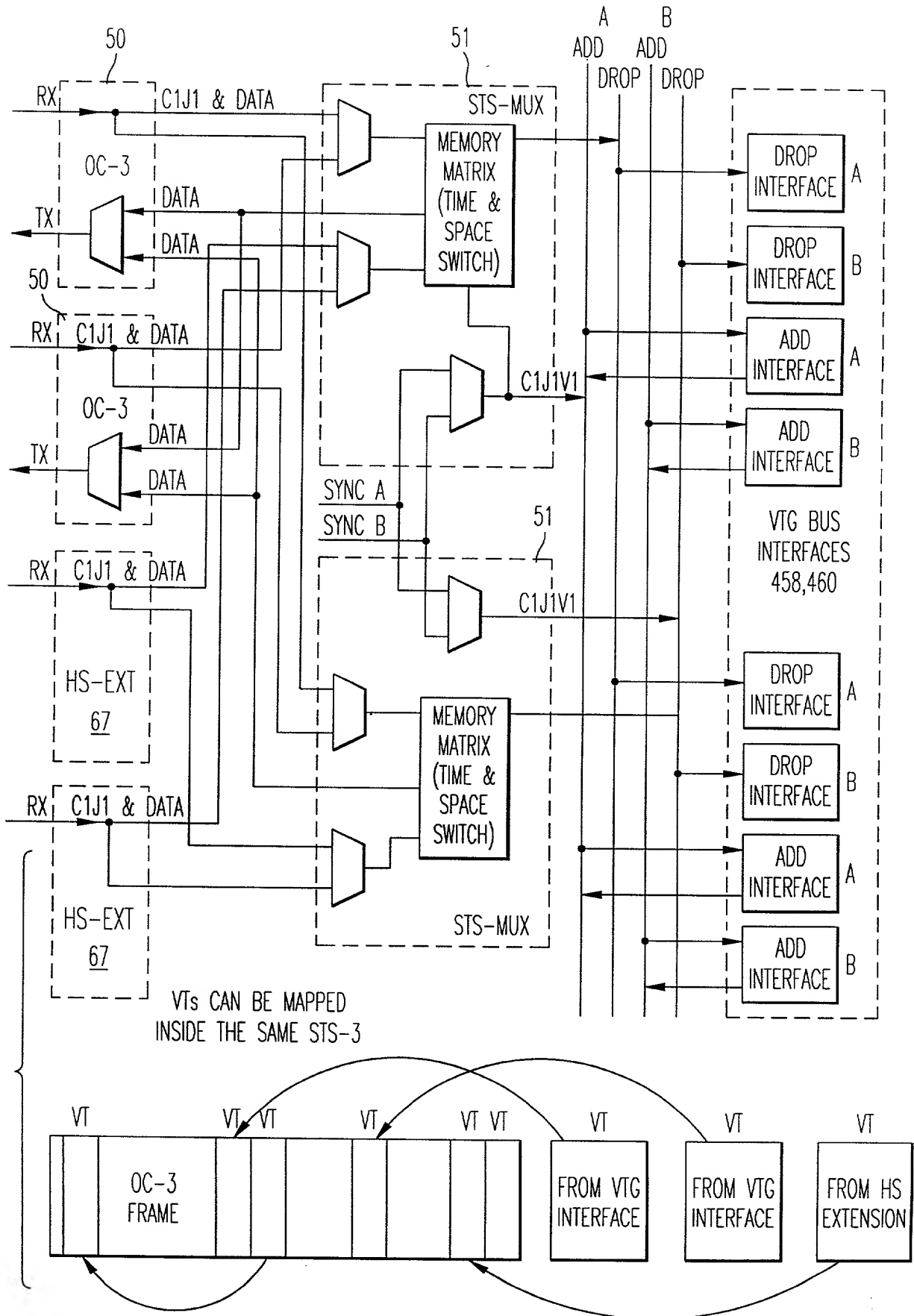


FIG. 41



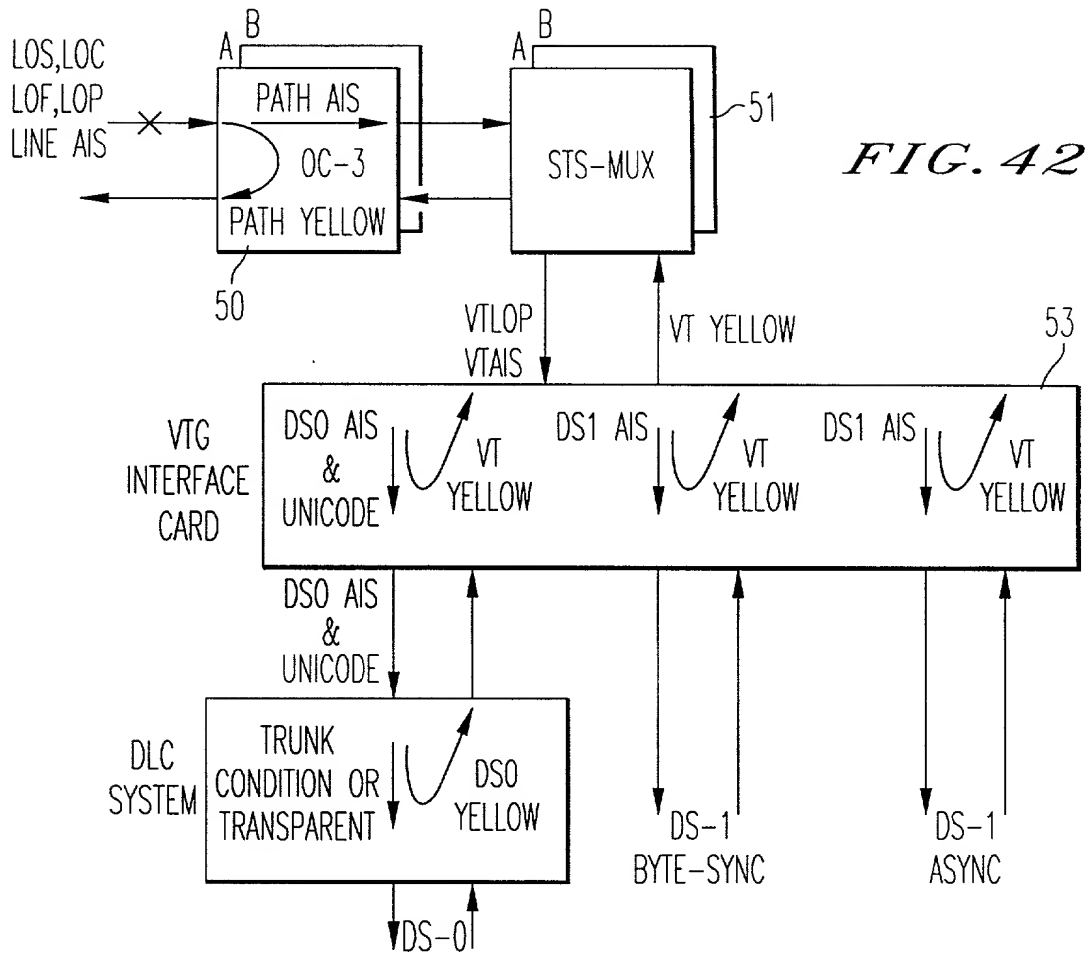


FIG. 42

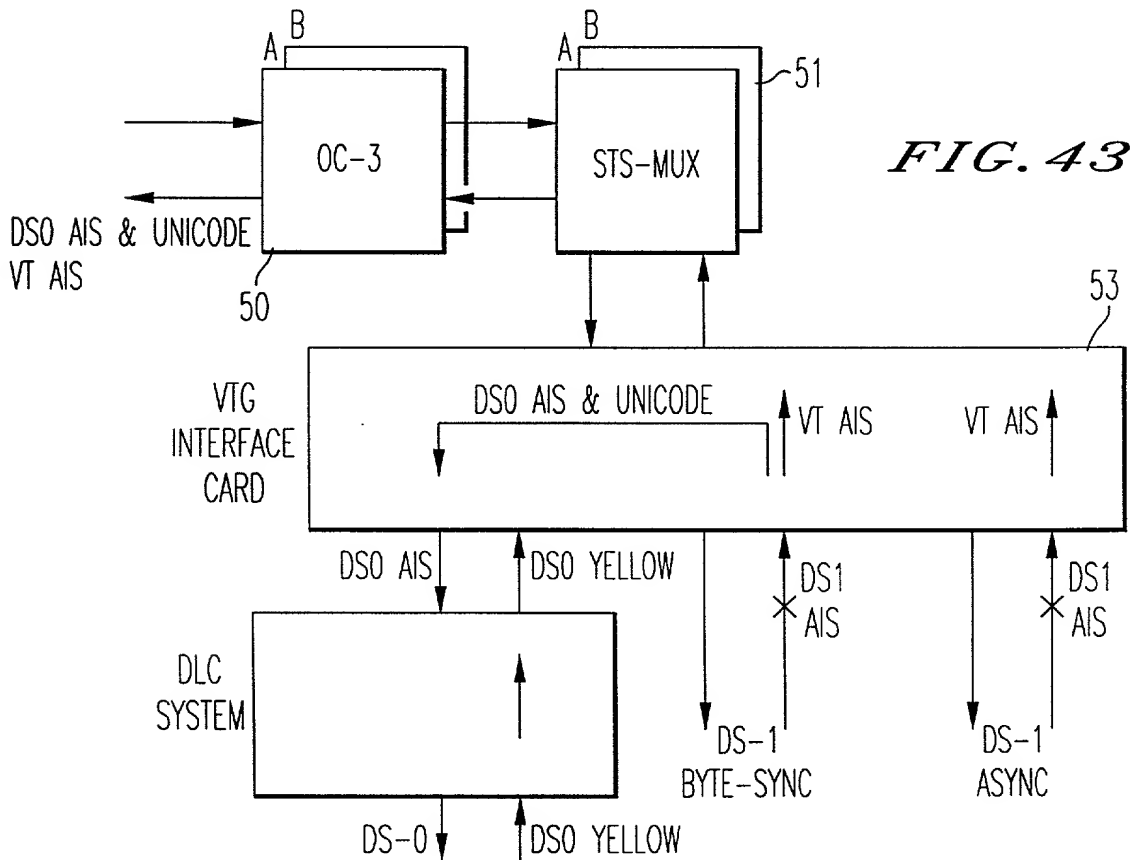
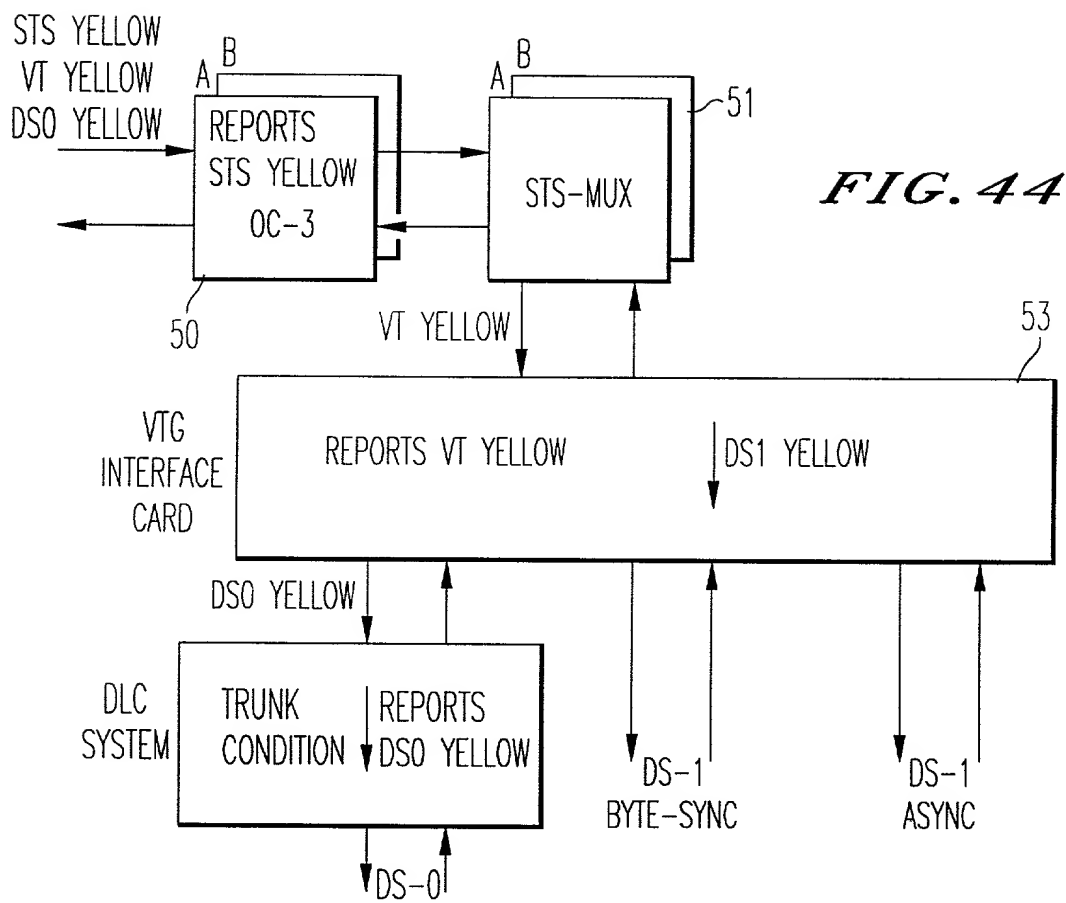


FIG. 43



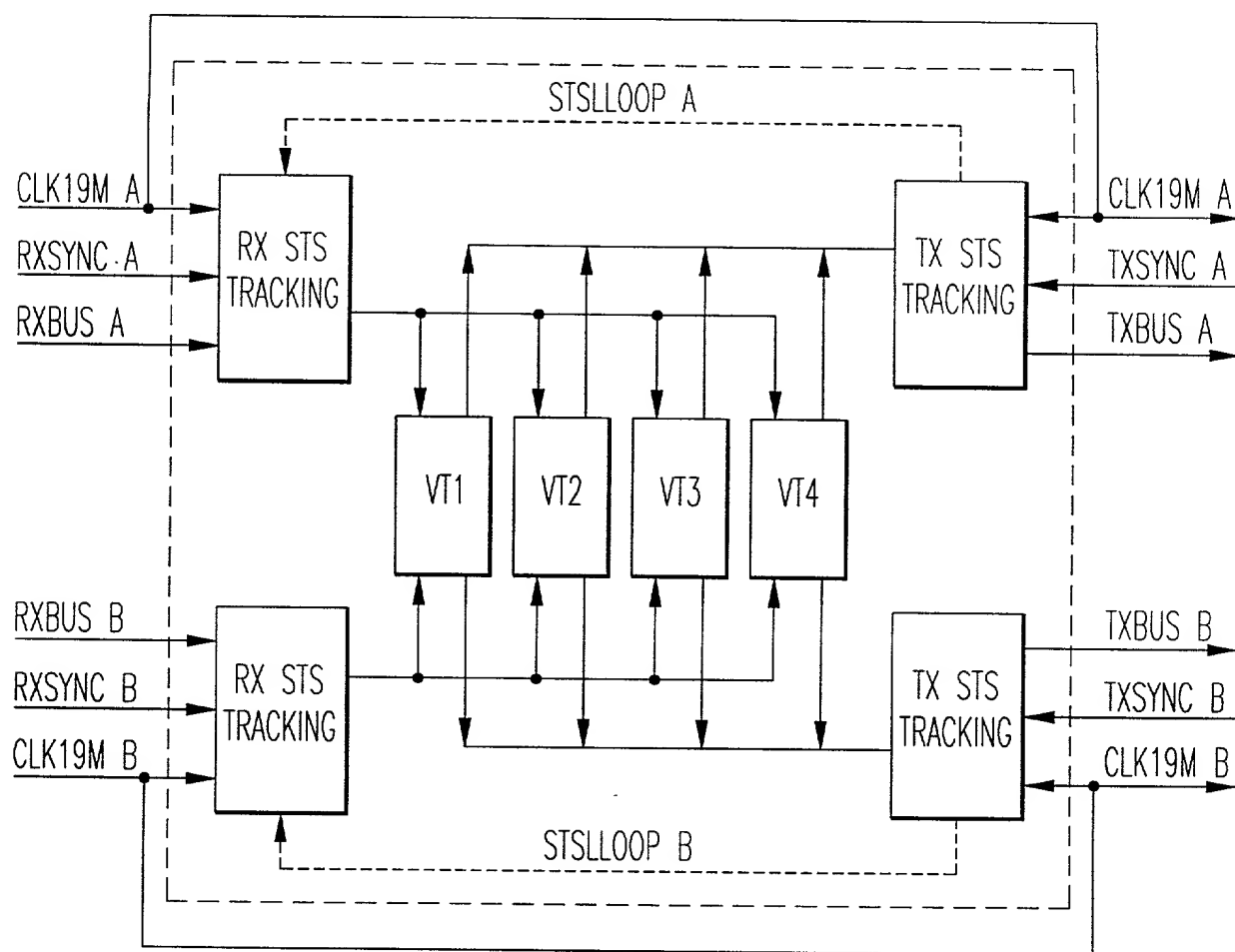


FIG. 45A

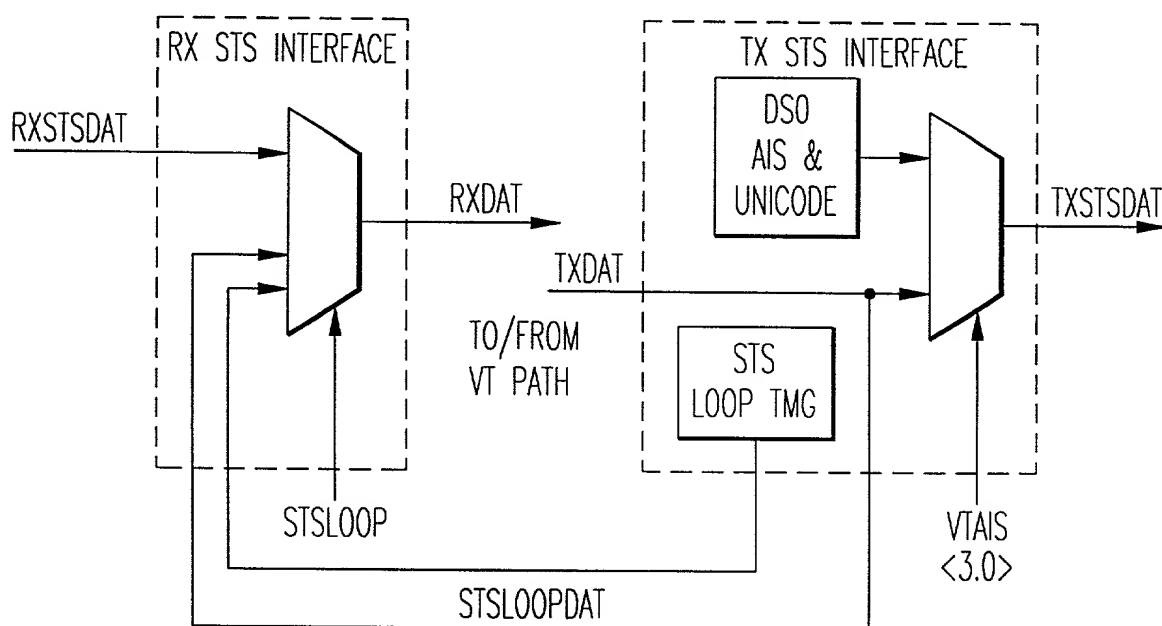


FIG. 45B

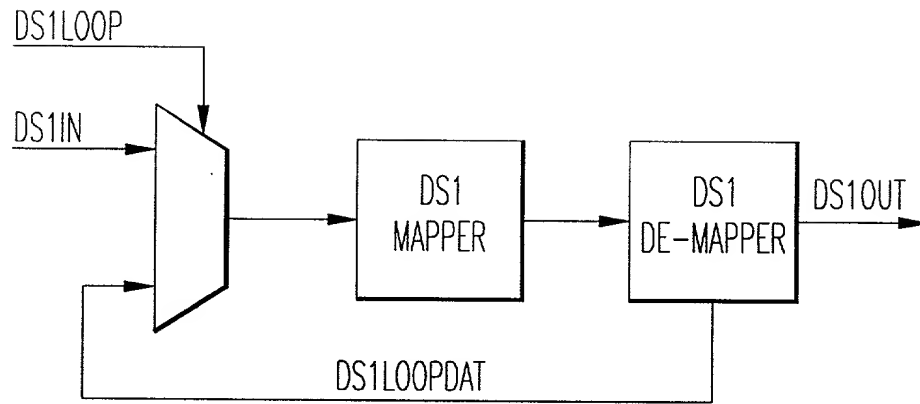


FIG. 45C

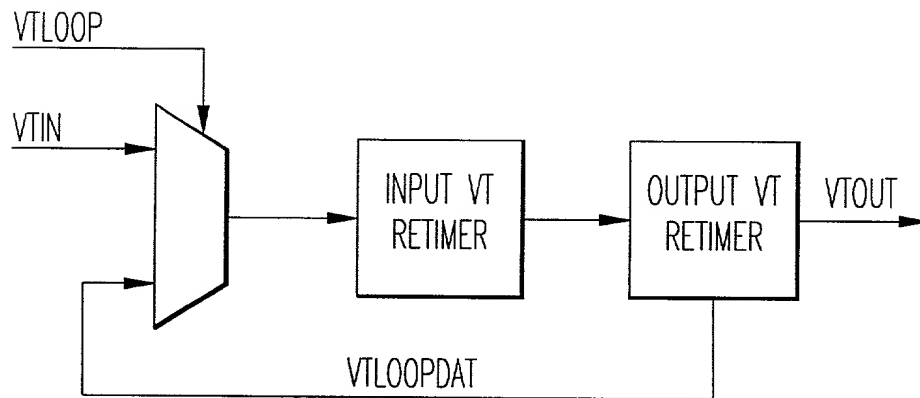


FIG. 45D

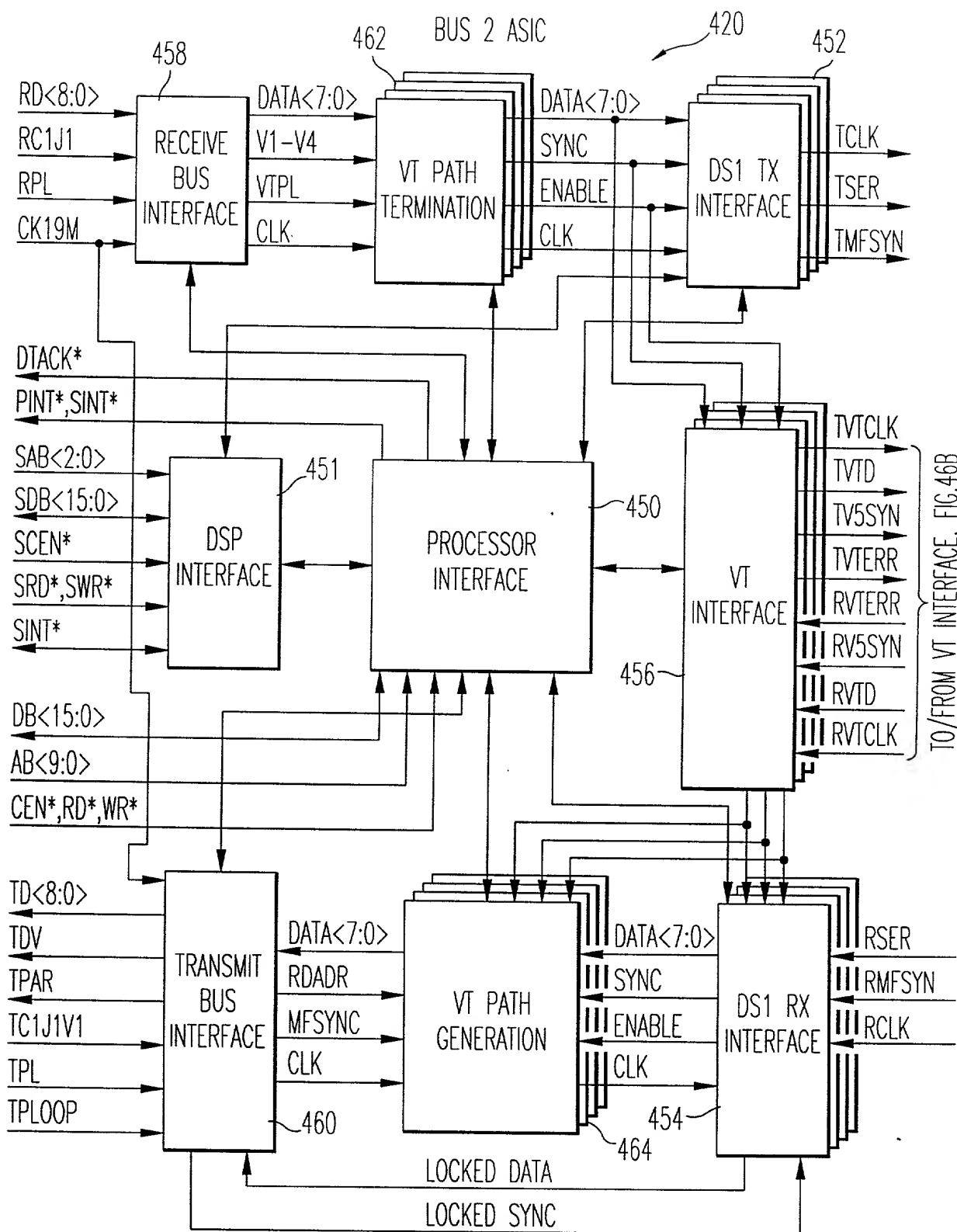


FIG. 46A

FIG. 46A

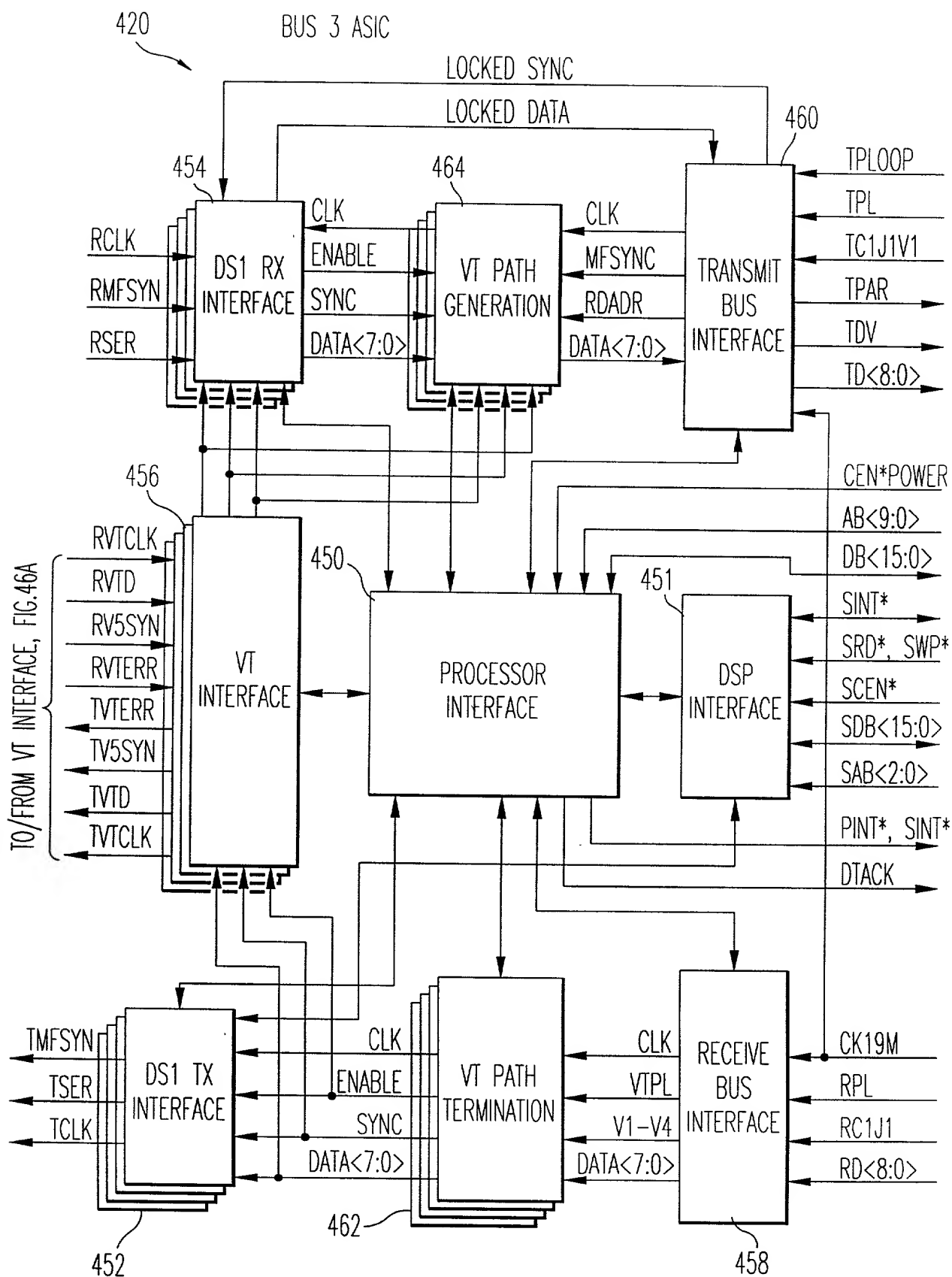


FIG. 46B

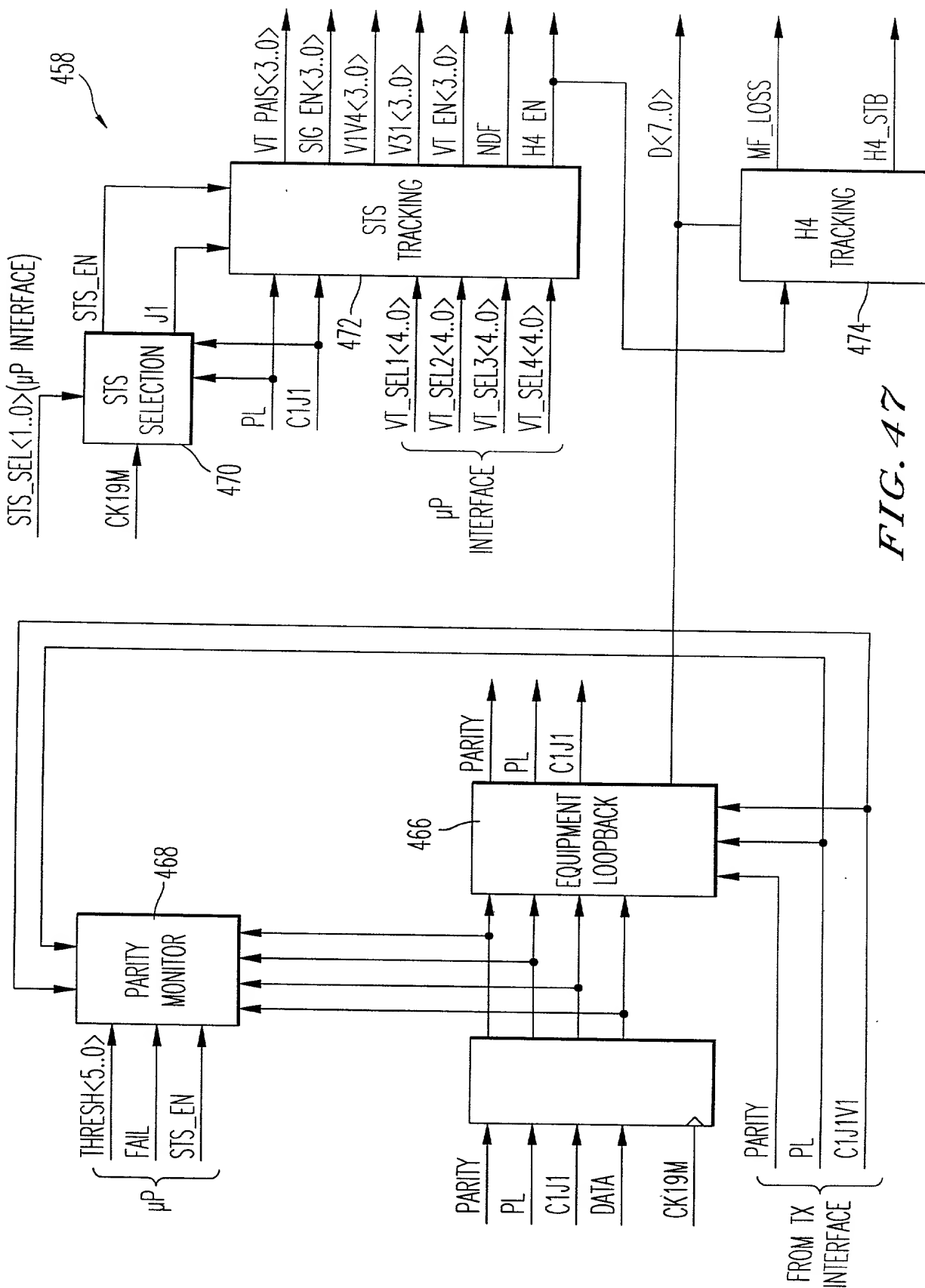


FIG. 47

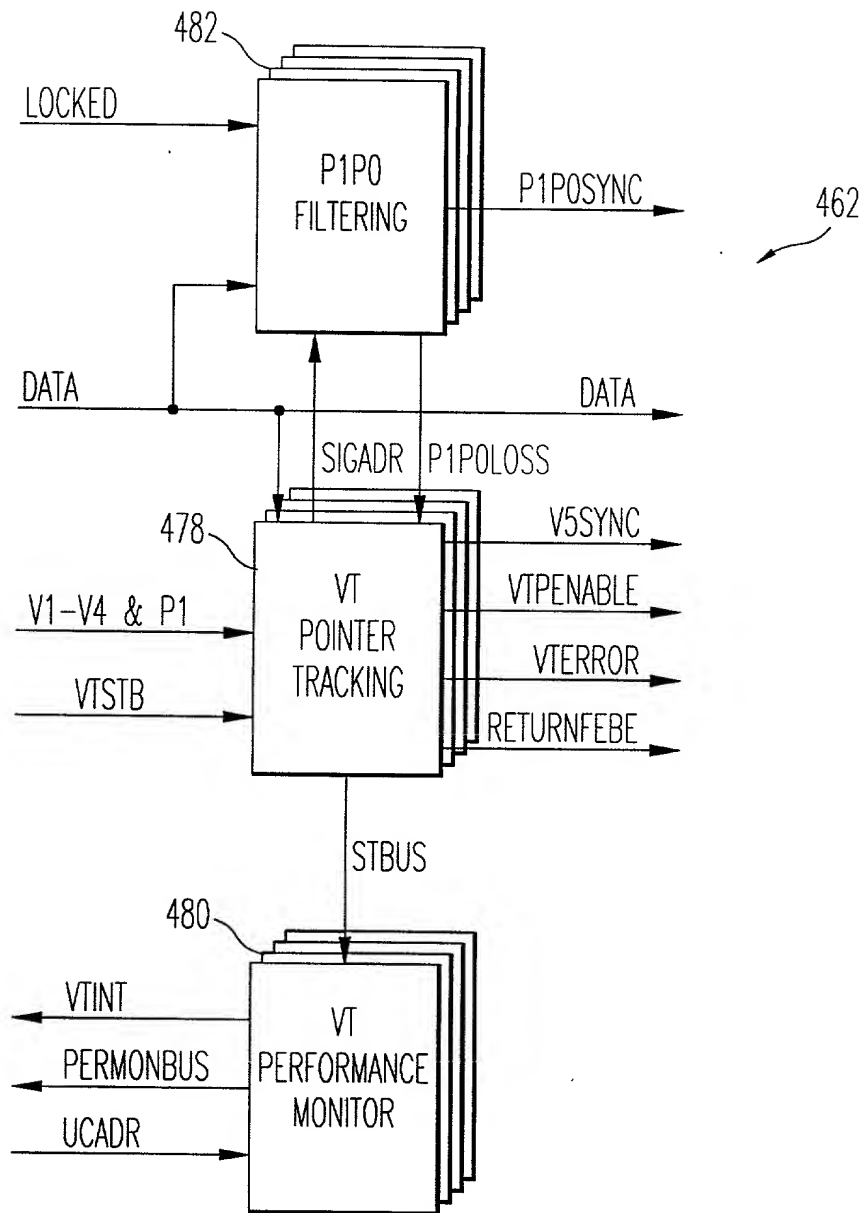


FIG. 48

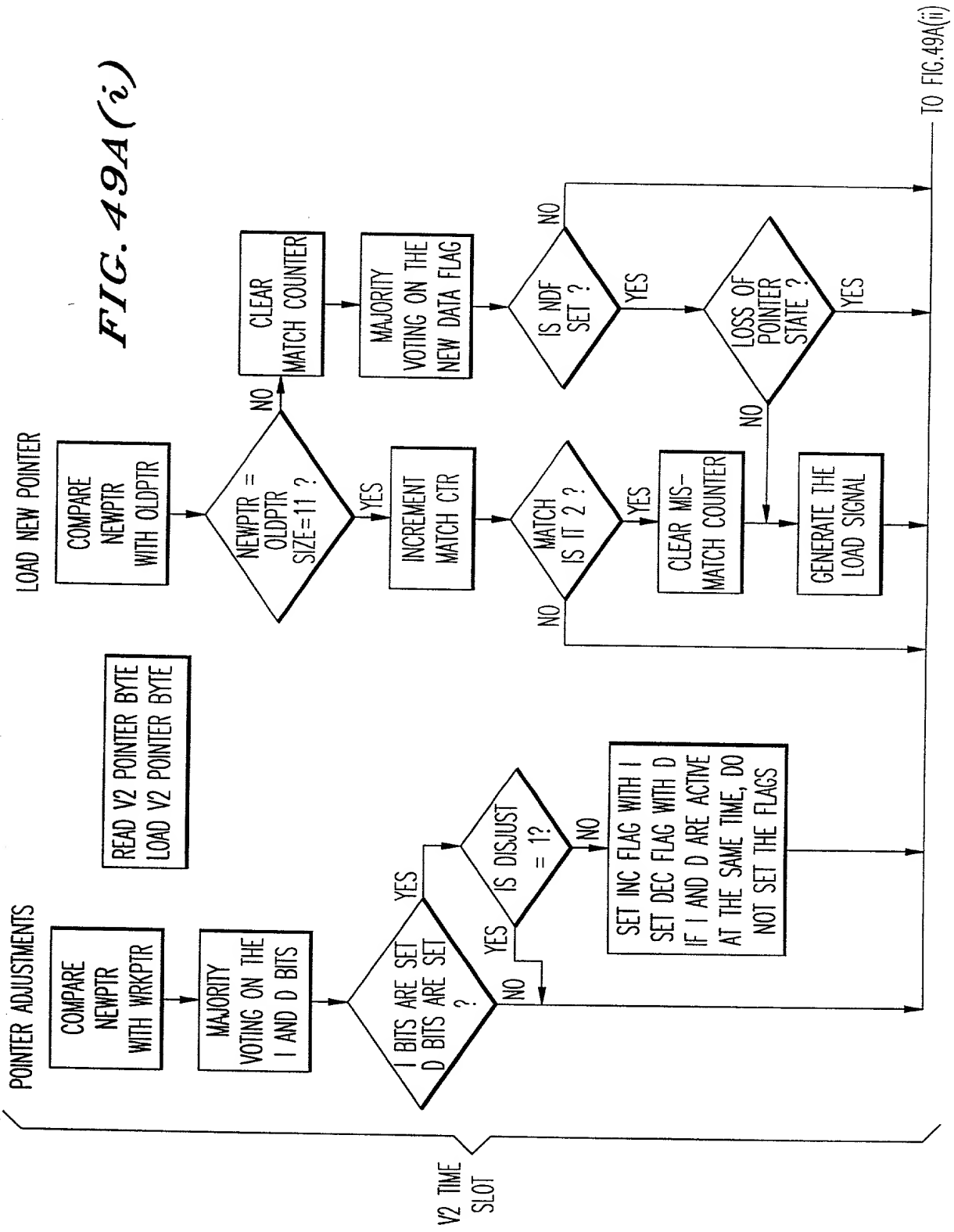
FIG. 49A(i)
&
FIG. 49A(ii)

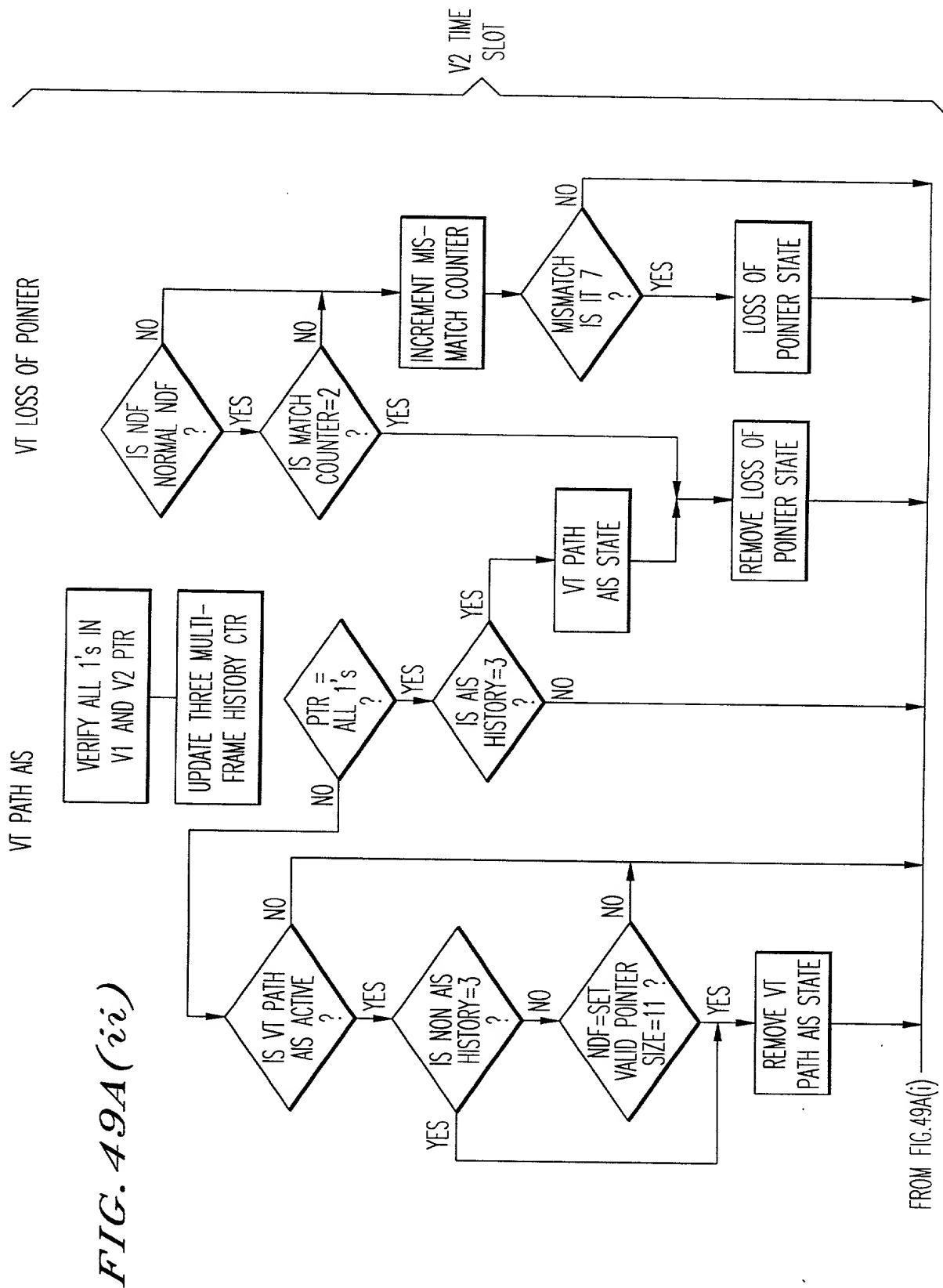
ADJUST THE WRKPTR
GENERATING ONE MORE
ENABLE DURING V3.
POINTER DECREMENTS

ADJUST THE WRKPTR
GENERATING ONE MORE
DISABLE FOLLOWING V3.
POINTER INCREMENTS

CLEAR INC & DEC FLAGS

FIG. 49





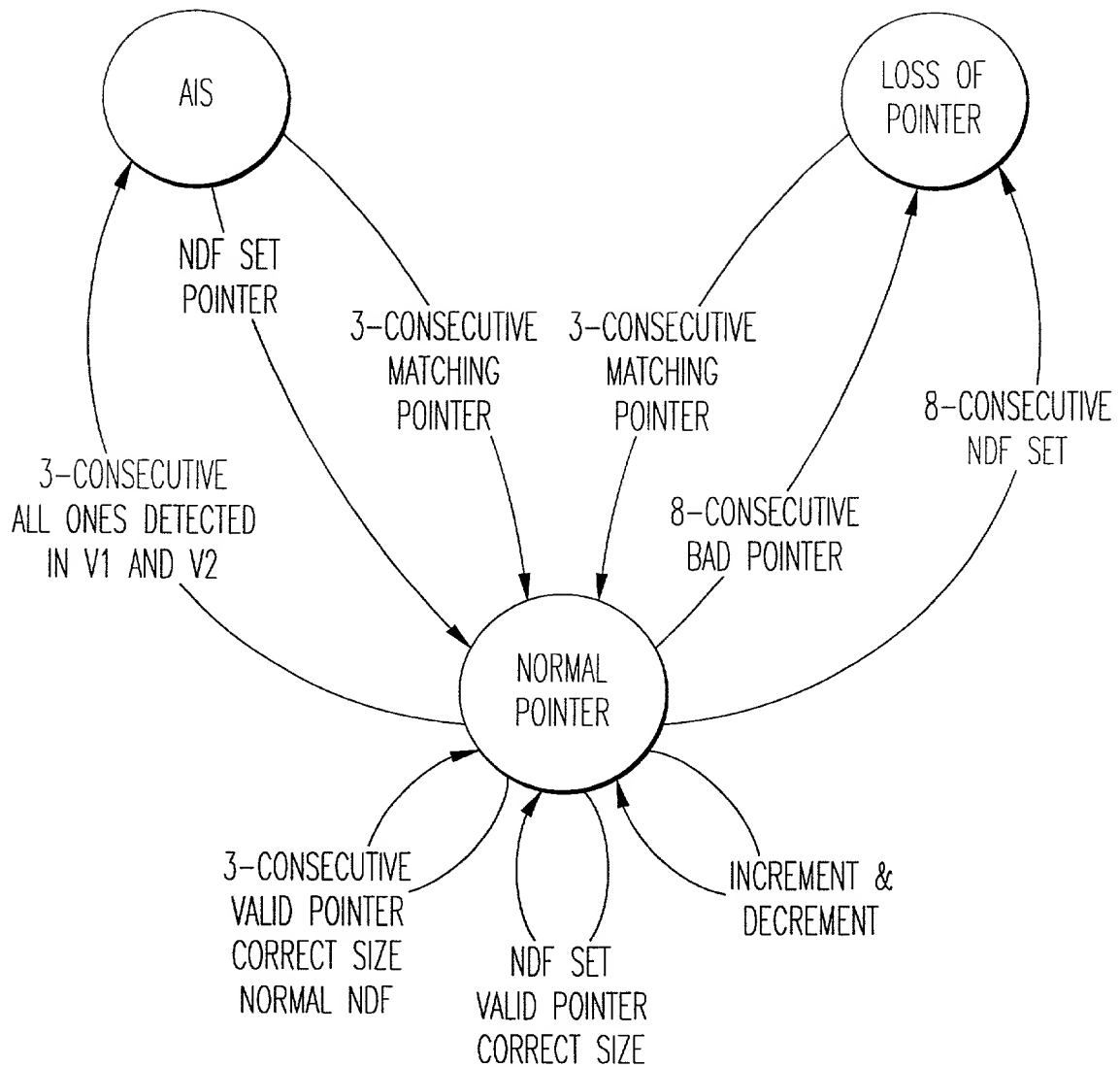
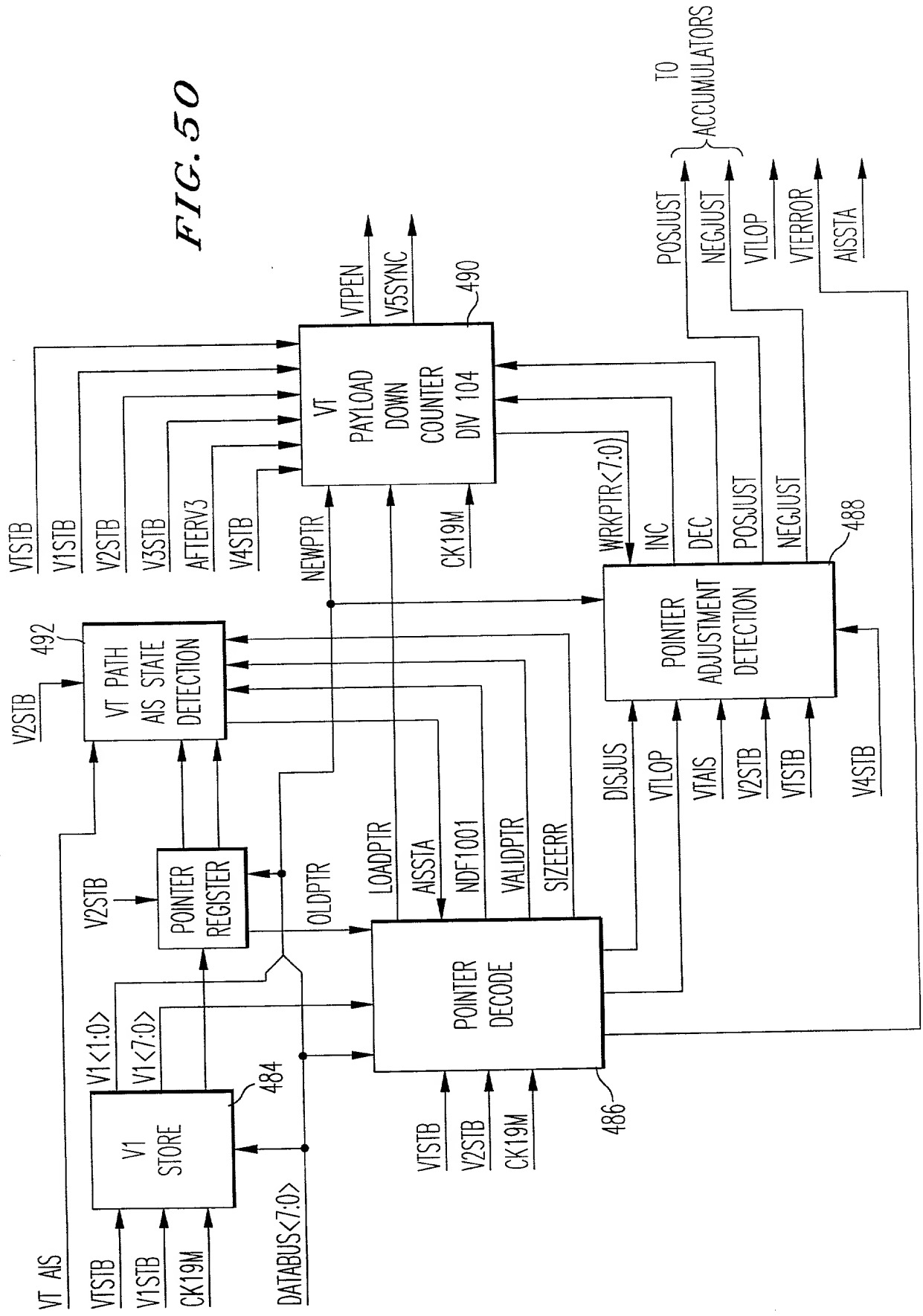


FIG. 49B



Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

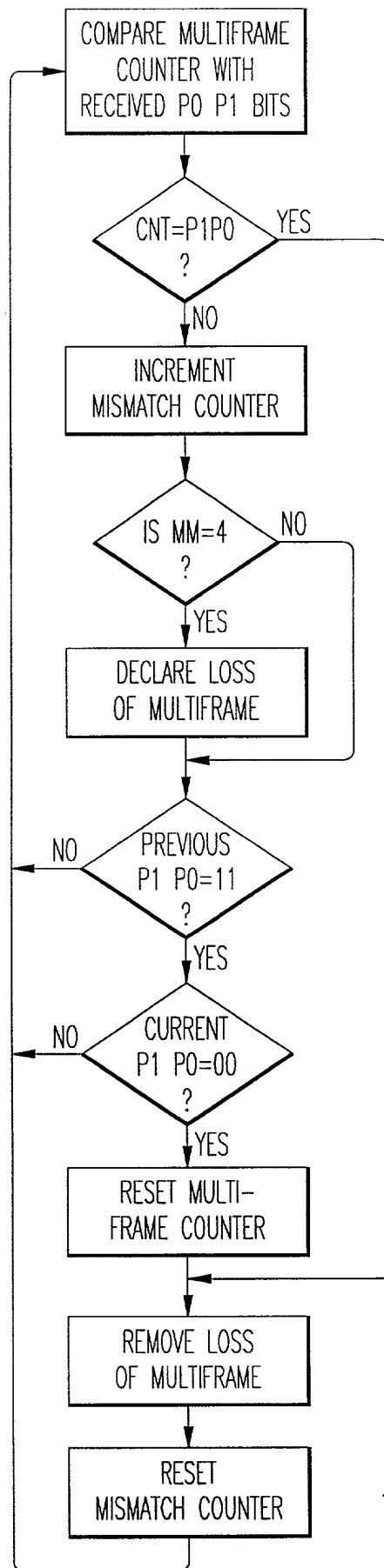
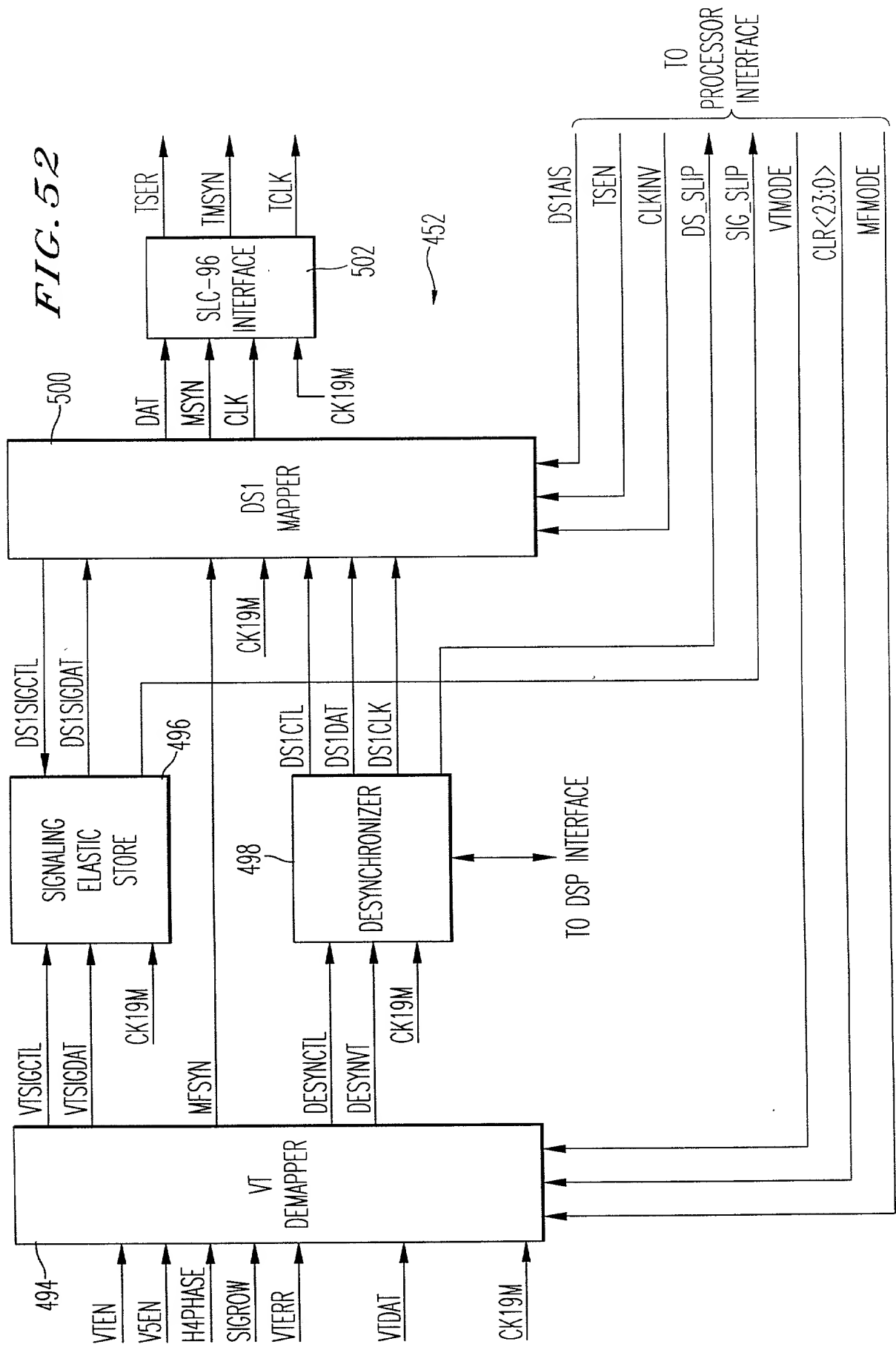


FIG. 51



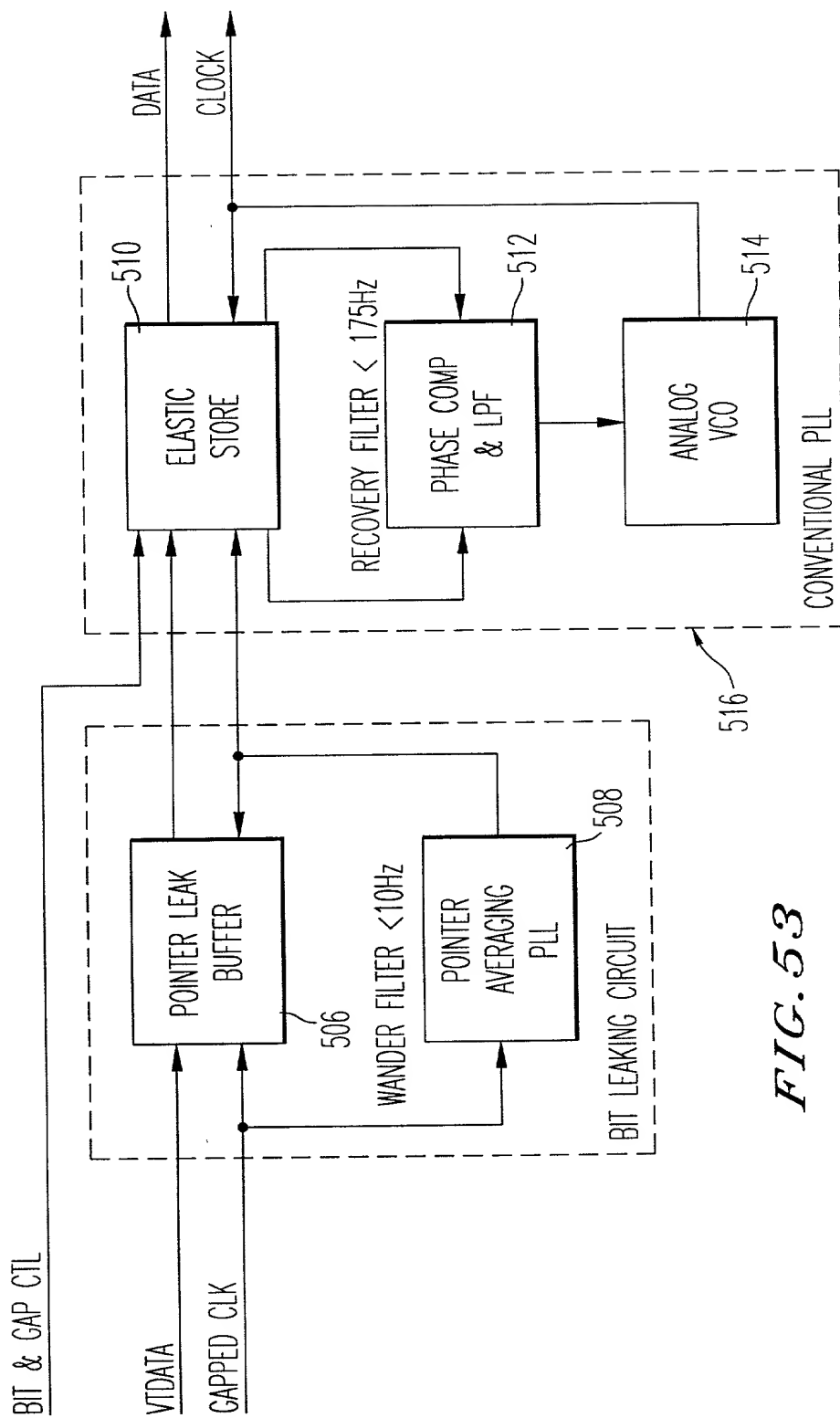
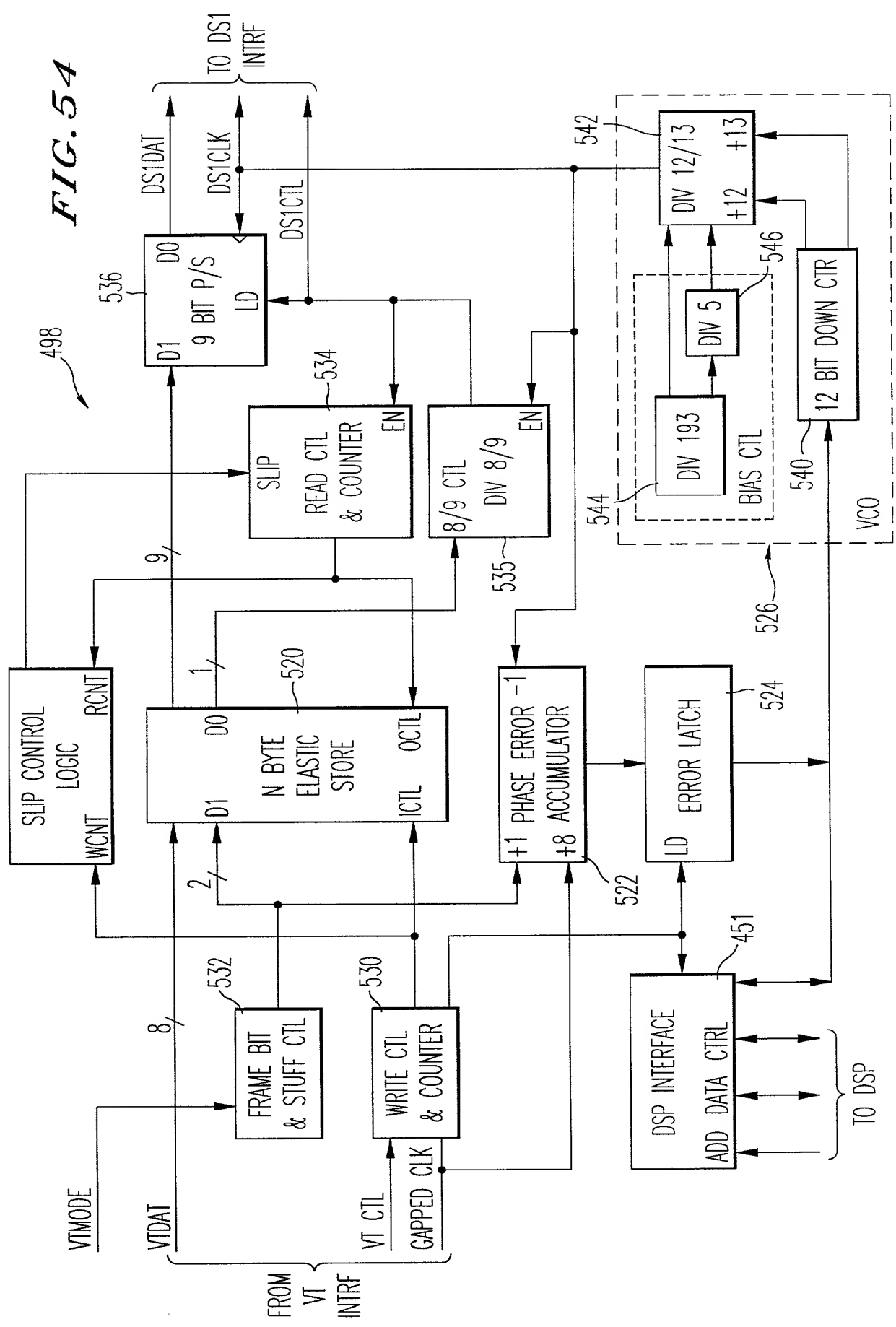


FIG. 53



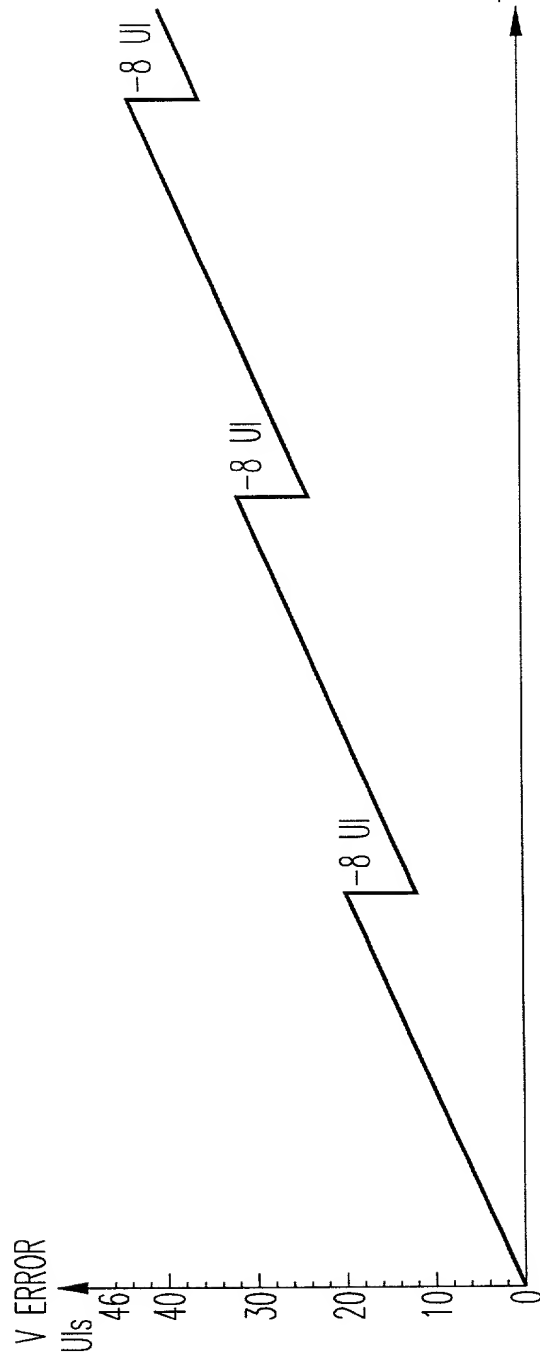


FIG. 55A

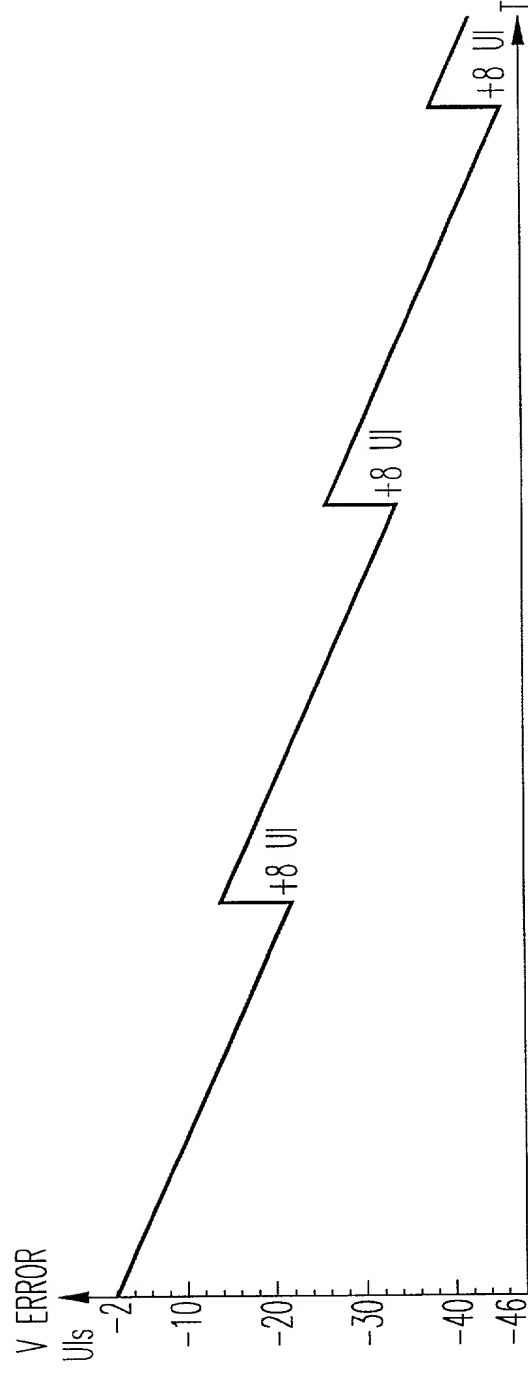


FIG. 55B

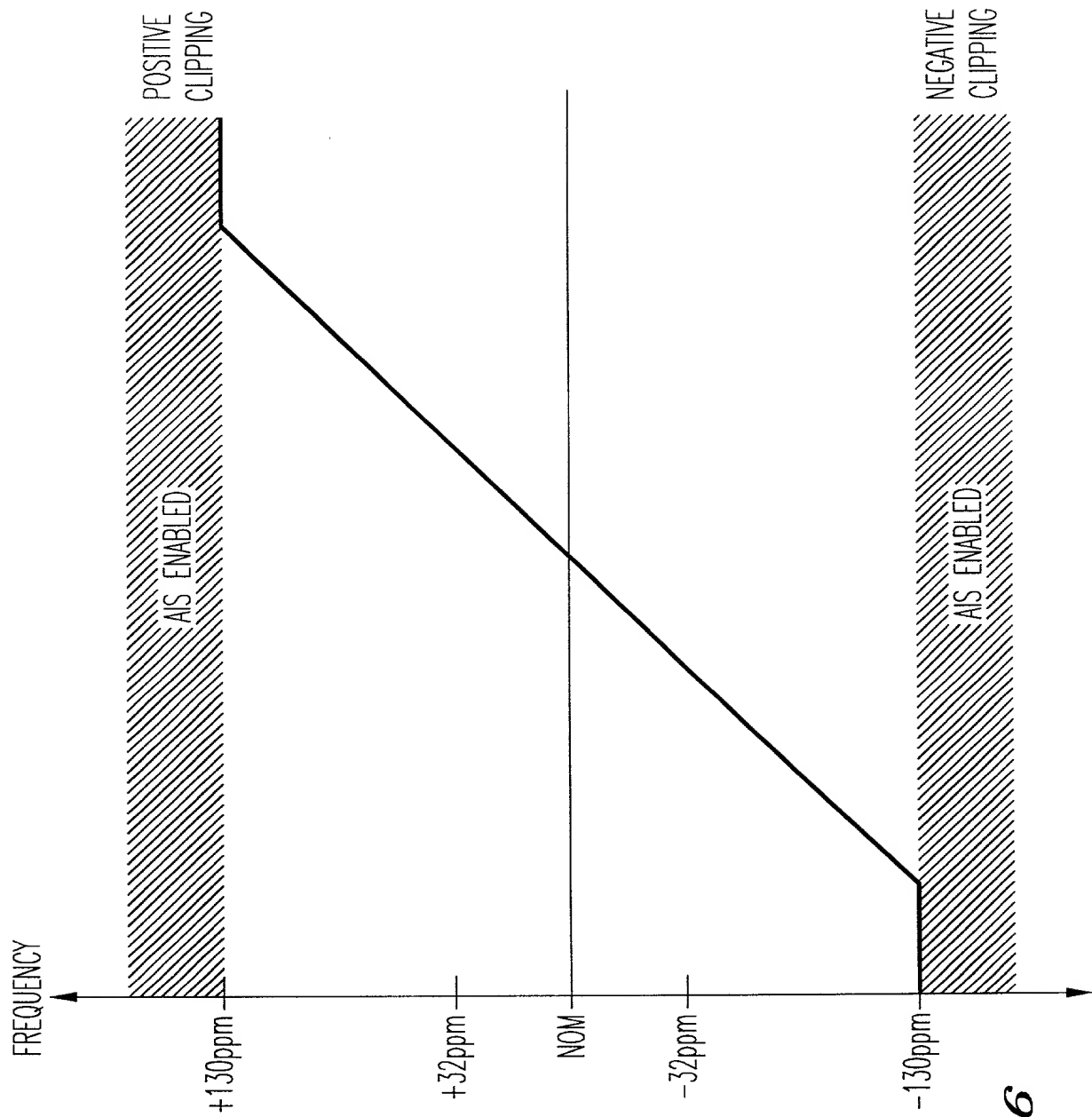


FIG. 56

CONTROL VALUE	ppm
1257	45
1298	85
1339	125
1421	175
1503	245
1544	275
1585	300
1667	340
1705	370
1749	400
1831	435
1872	465
1913	485
1954	500
1995	515
2036	525
2077	550
2118	565
2159	575
2200	585
2241	595
2323	625
2364	645
2405	655

A scatter plot showing the relationship between Negative Control Value (X-axis) and ppm (Y-axis). The X-axis ranges from 1000 to 2600, and the Y-axis ranges from 0 to 700. The data points show a strong negative linear correlation, starting at approximately (1200, 630) and ending at (2450, 20).

FIG. 57B

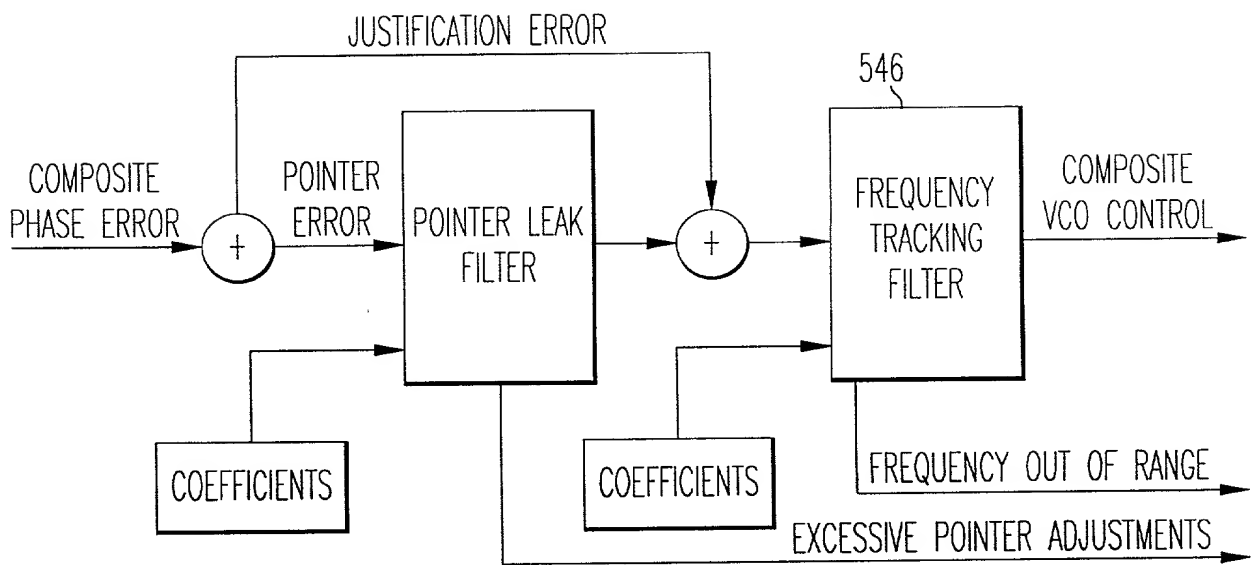


FIG. 58

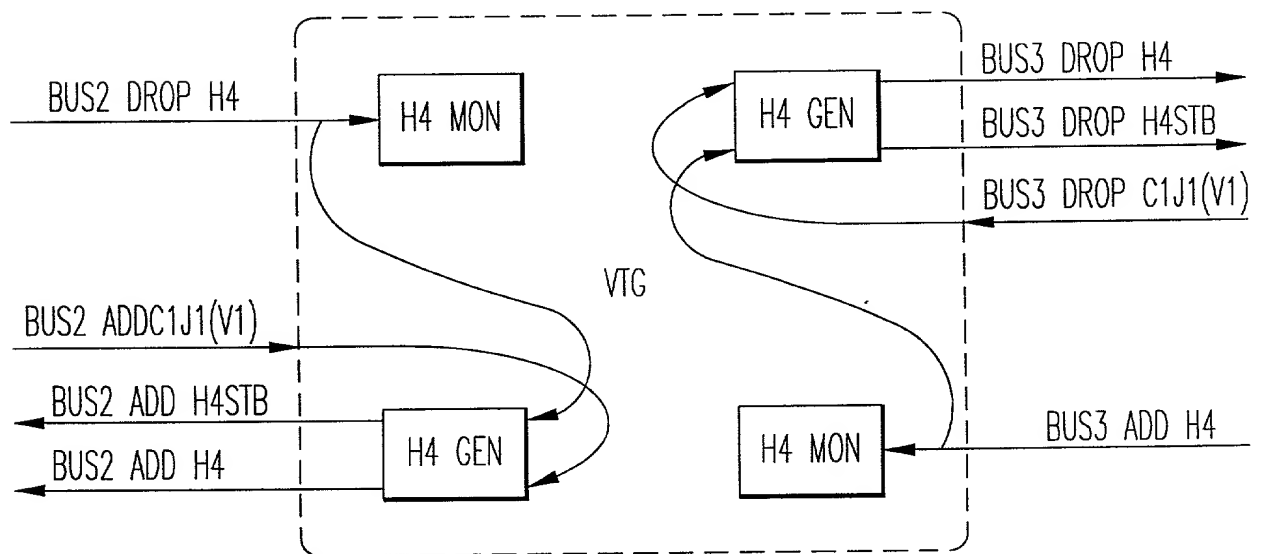


FIG. 61

MULTI-FRAME	FRAME	FS-BIT (SF MODE)	FS-BIT (SLC-96 MODE)
1	2	0	0
1	4	0	0
1	6	1	1
1	8	1	1
1	10	1	1
1	12	0	0
2	2	0	0
2	4	0	0
2	6	1	1
2	8	1	1
2	10	1	1
2	12	0	C1
3	2	0	C2
3	4	0	C3
3	6	1	C4
3	8	1	C5
3	10	1	C6
3	12	0	C7
4	2	0	C8
4	4	0	C9
4	6	1	C10
4	8	1	C11
4	10	1	0
4	12	0	1
5	2	0	0
5	4	0	M1
5	6	1	M2
5	8	1	M3
5	10	1	A1
5	12	0	A2
6	2	0	S1
6	4	0	S2
6	6	1	S3
6	8	1	S4
6	10	1	1
6	12	0	0

FIG. 59

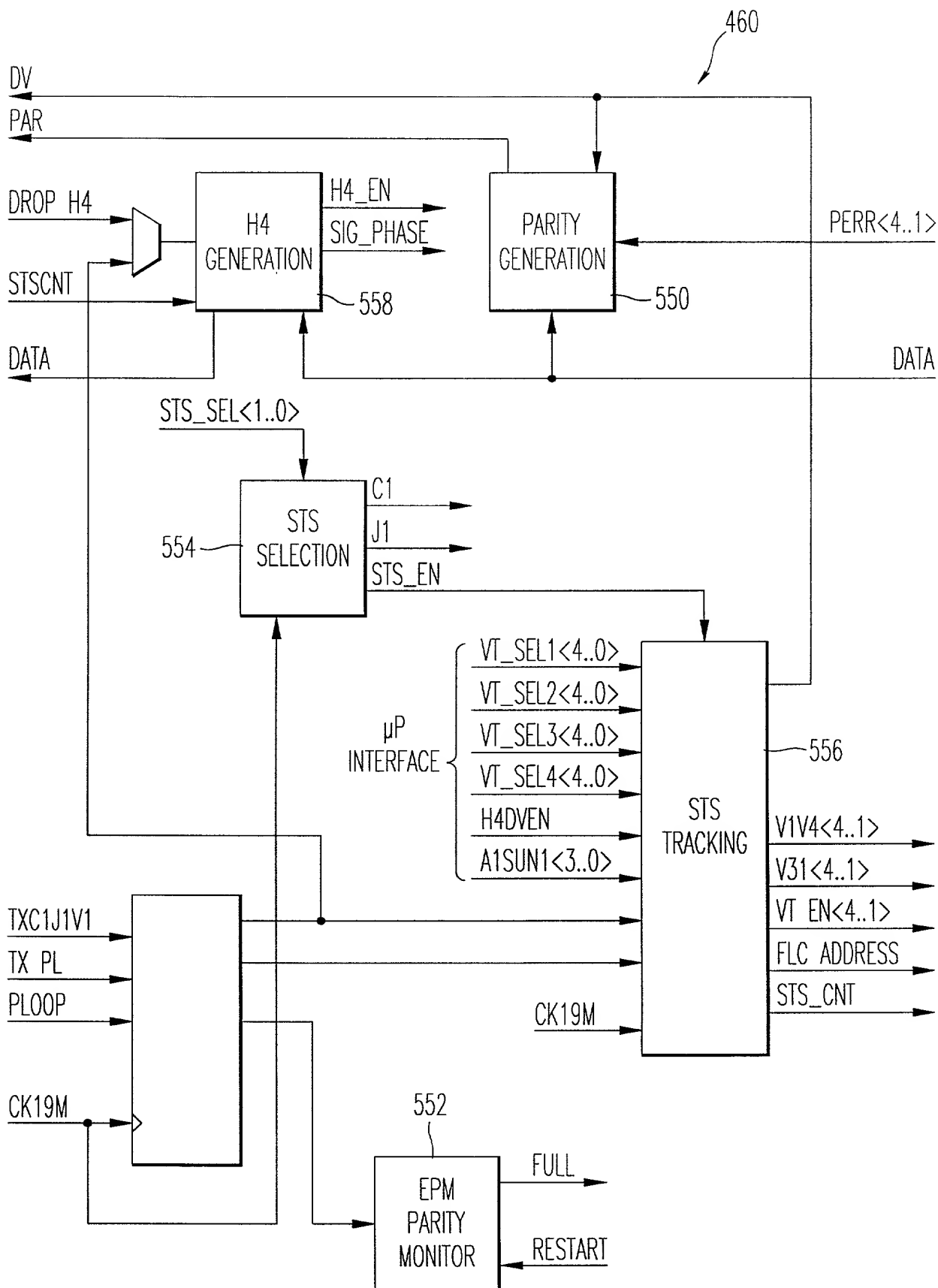
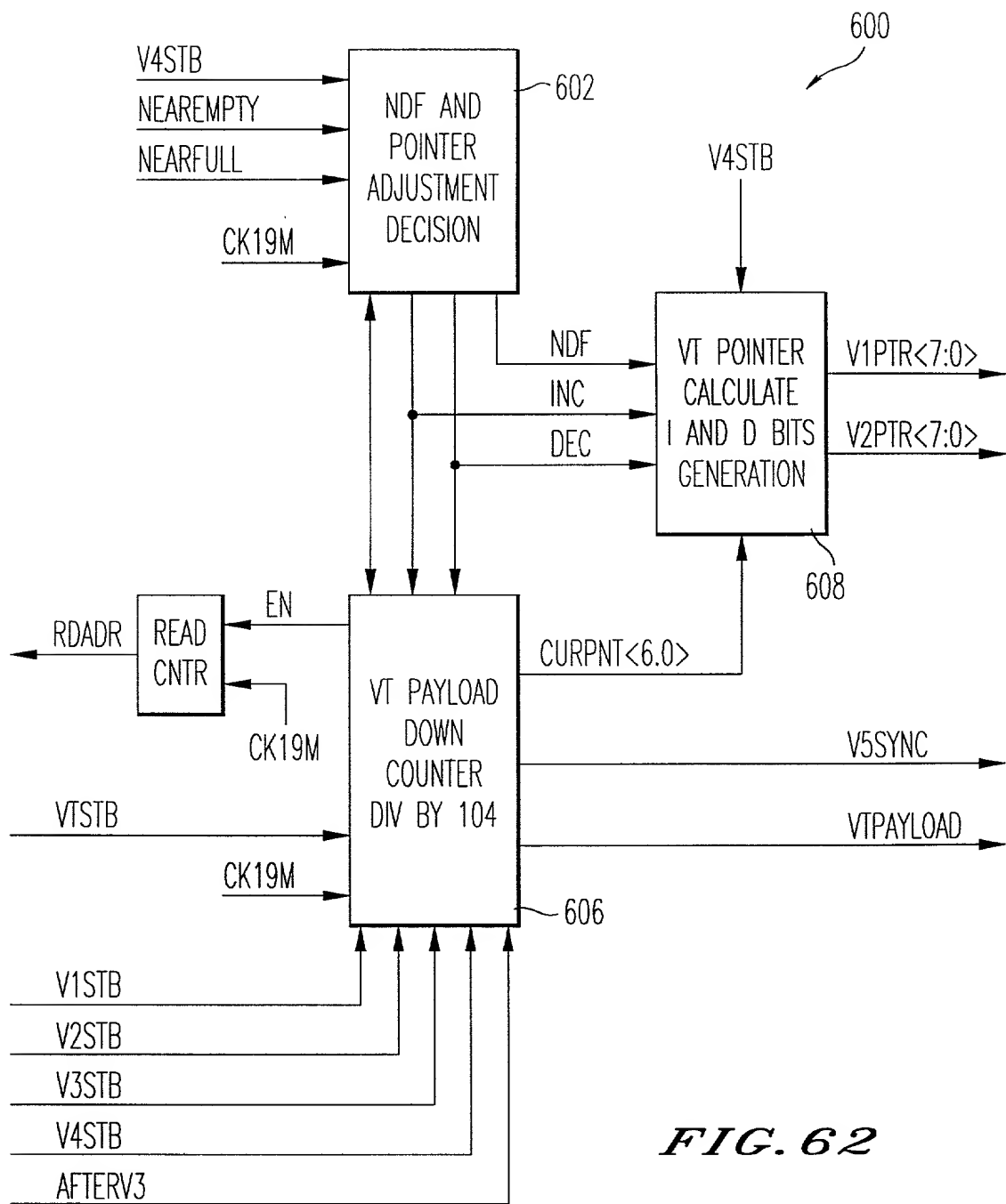


FIG. 60



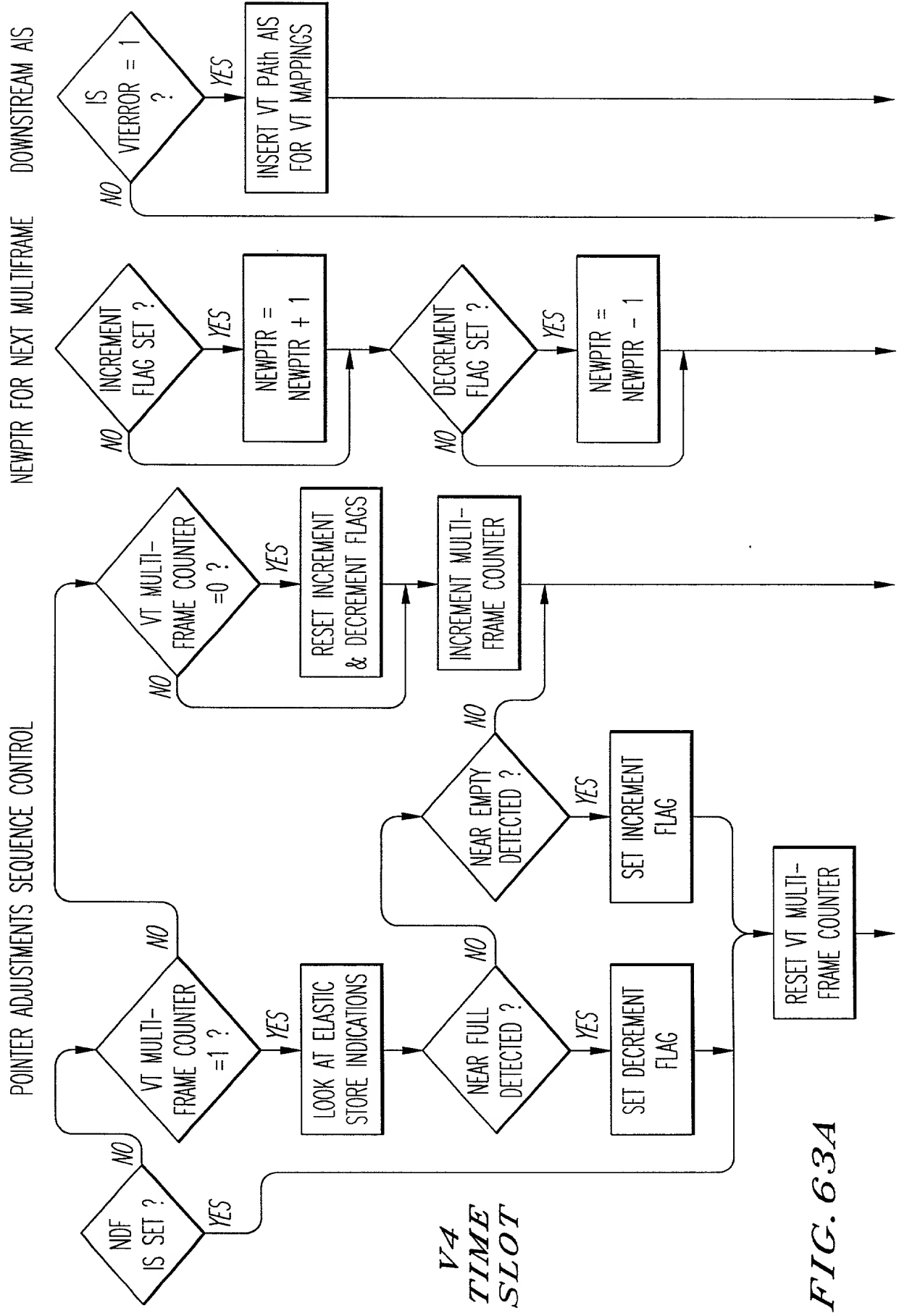


FIG. 63A

MULTIPLEX V1 CONTENT
INTO THE VT DATA

MULTIPLEX V2 CONTENT
INTO THE VT DATA

NEWPTR FOR NEXT MULTIFRAME

COMPARE OLDPTR
WITH WRKPTR

```
graph TD
    YES --> YES_PATH[ ]
    YES_PATH --- OLDPTR_EQUALS_WRPTR{OLDPTR =  
WRKPTR ?}
    OLDPTR_EQUALS_WRPTR -- NO --> WRKPTR_INCREMENT[WRKPTR ← WRKPTR + 1]
    WRKPTR_INCREMENT --> WRKPTR_INCREMENT
    WRKPTR_INCREMENT --> WRKPTR_INCREMENT
```

SET NDF

```
LOAD NEWPTR WITH
    WRKPTR
NEWPTR = WRKPTR
```

NEWPTR = WRKPTR DURING V2 TIME SLOT

WRKPTR = WORKING POINTER IN THE
VT SPE DOWN COUNTER

OLDPTR = PREVIOUS FRAME VT POINTER VALUE

VALID POINTER RANGE = VALID = 0-103 (DECIMAL)

0-067 HEXADECIMAL

0000000000-0001100111 BINARY

*V3
TIME
SLOT*

```
graph TD; A[DECREMENT = 1 ?] -- NO --> B[ ];
```

```

ENABLE DOWN COUNTER
IF DECREMENT IS SET
WRKPTR = WRKPTR - 1

```

*BYTE
AFTER
V3*

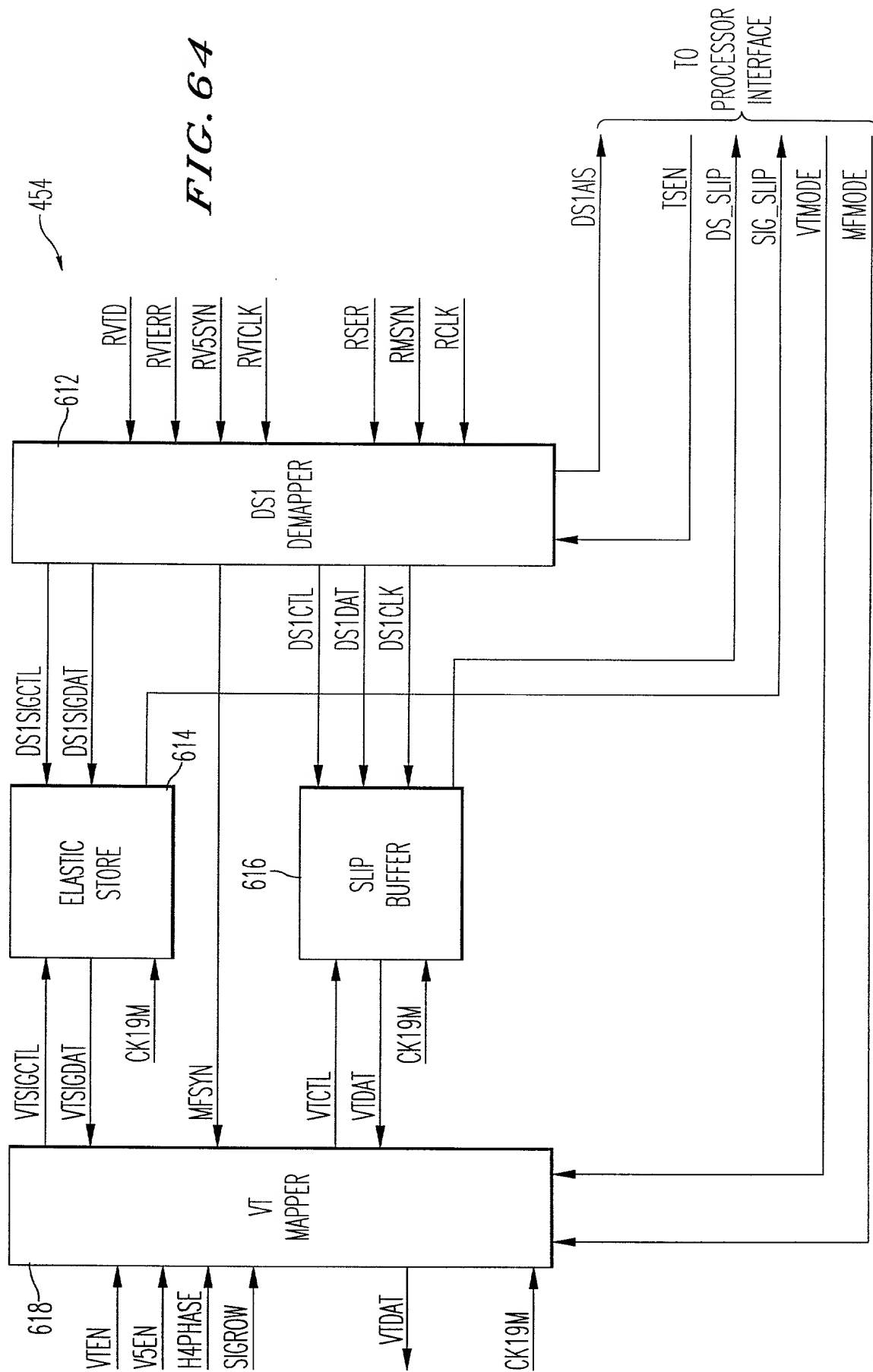
```
graph LR; A[INCREMENT = 1 ?] -- NO --> B[ ];
```

```

DISABLE DOWN COUNTER
IF INCREMENT IS SET
WRKPTR = WRKPTR + 1

```

FIG. 63B



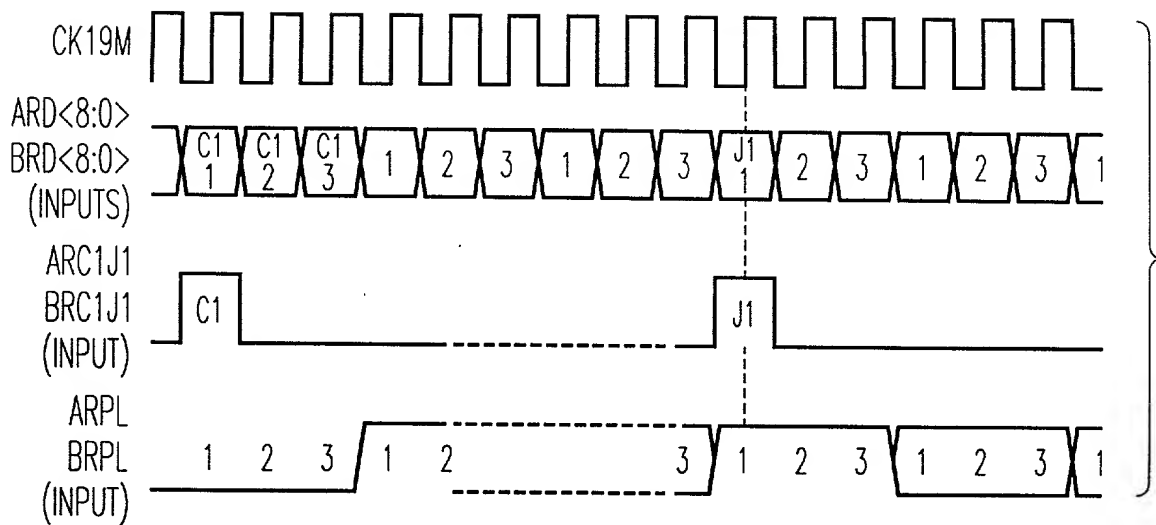


FIG. 65

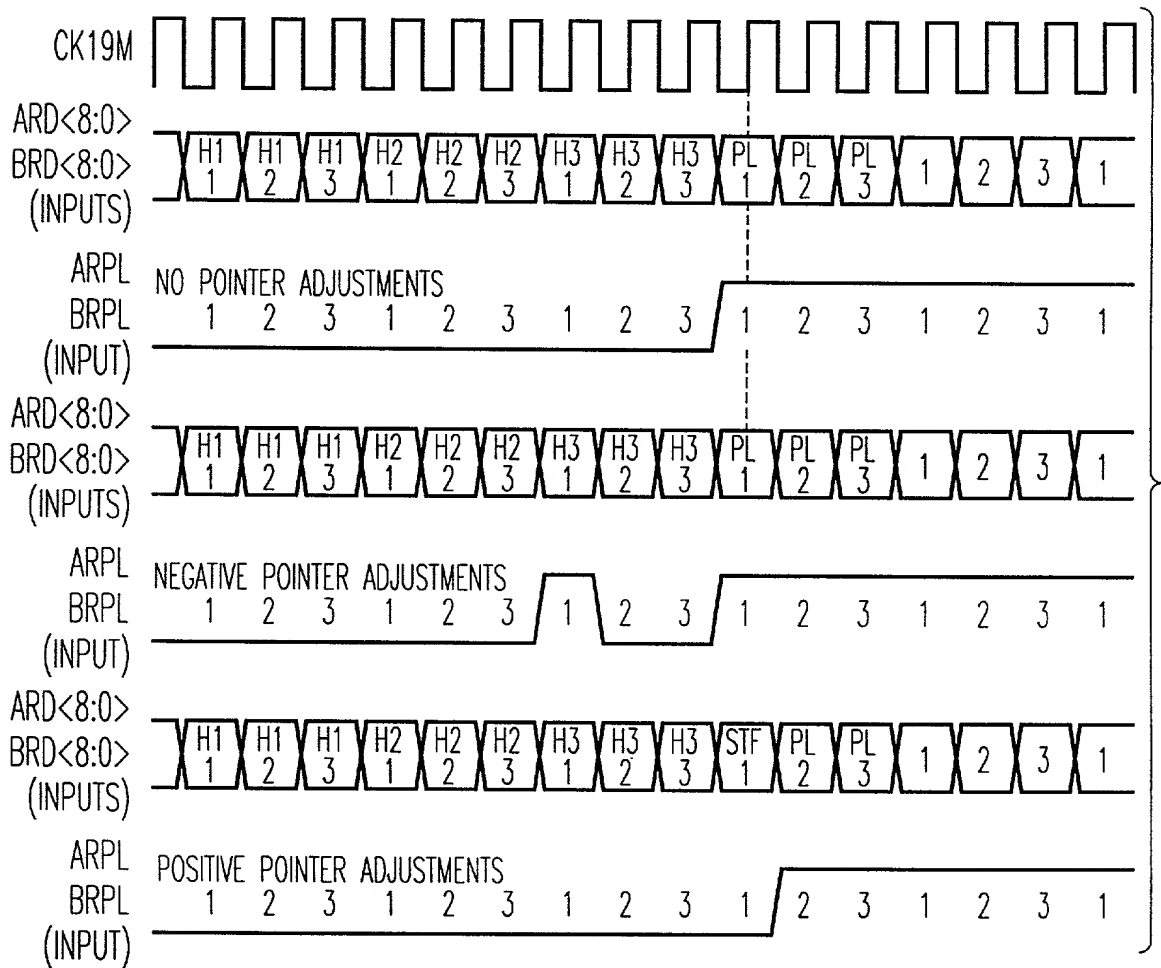


FIG. 66

00000000 10501

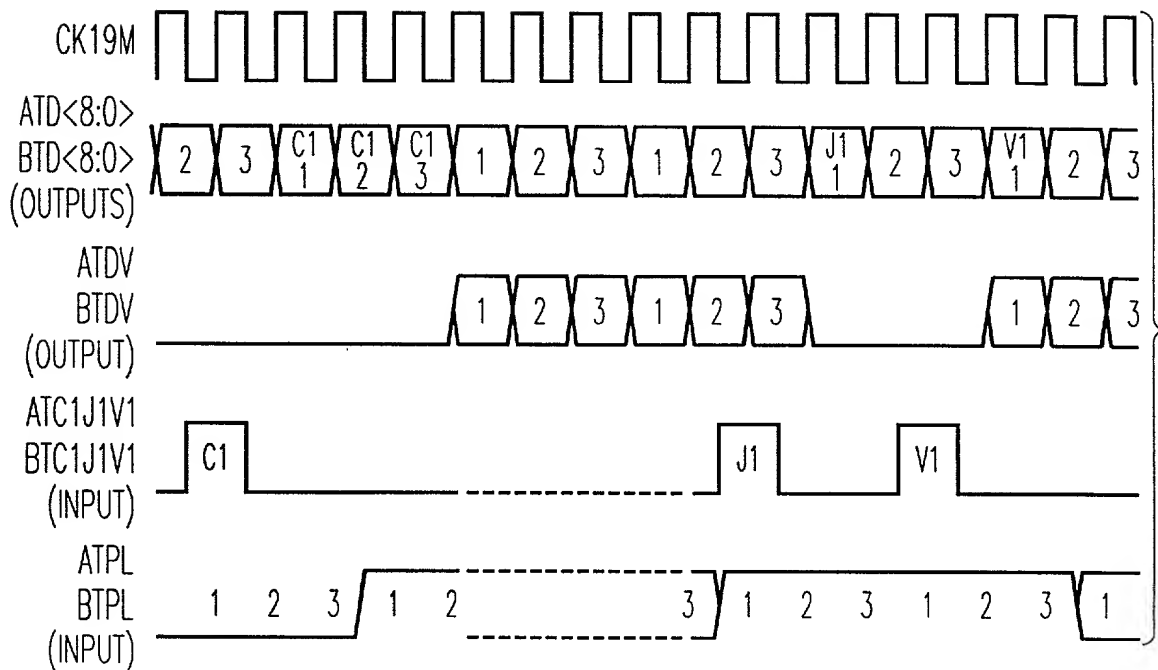


FIG. 67

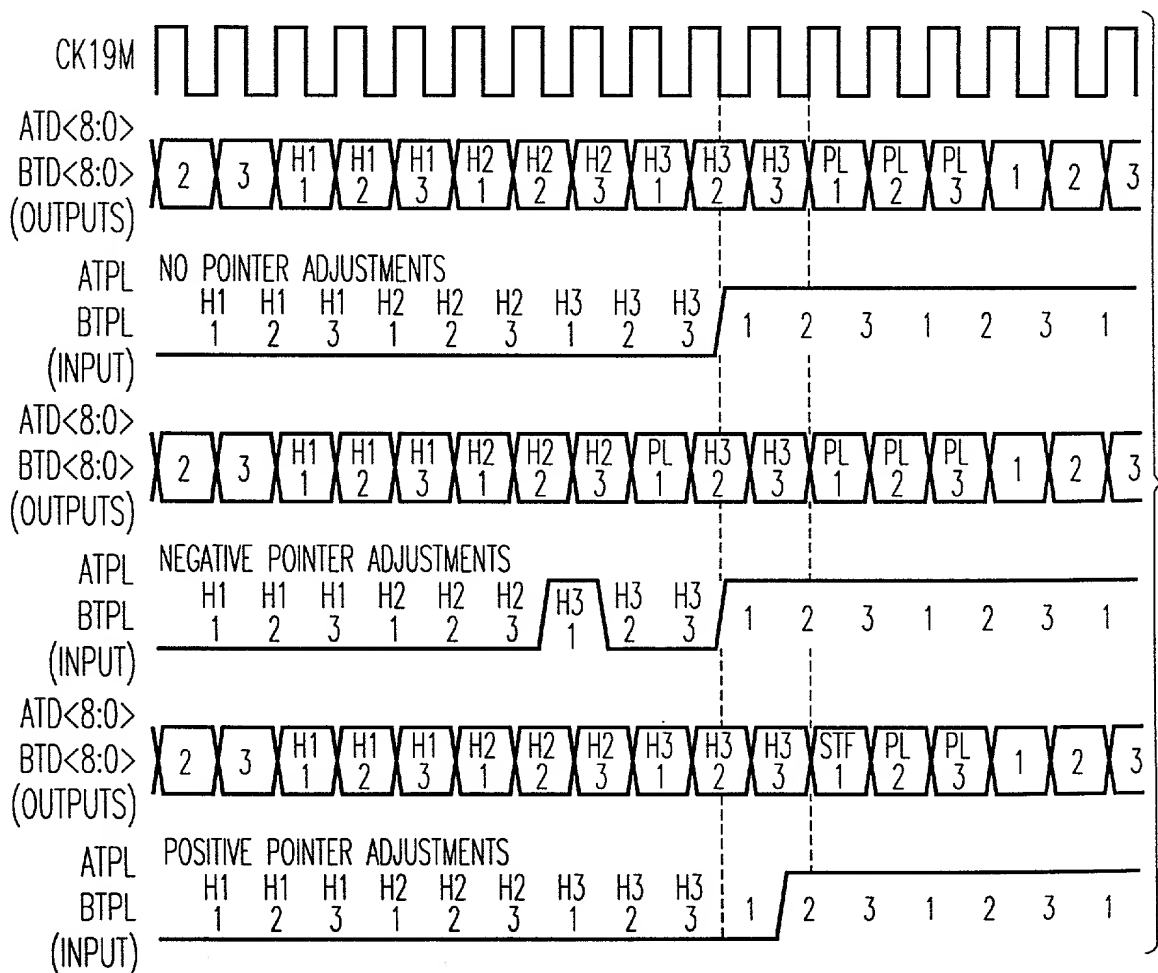


FIG. 68

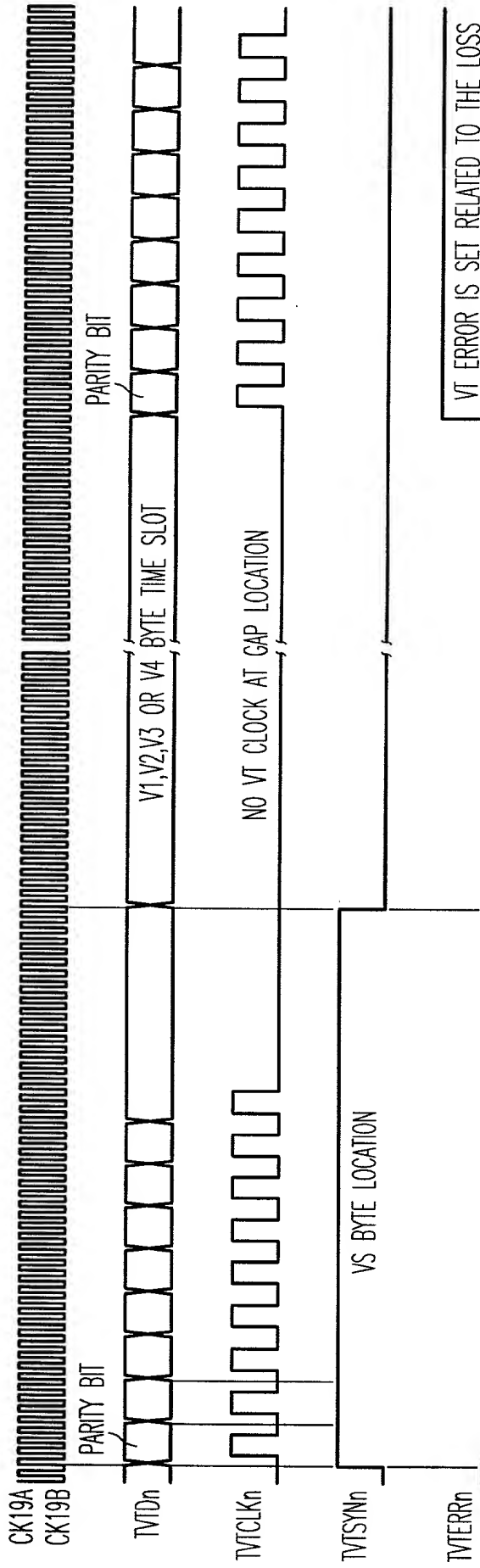


FIG. 69

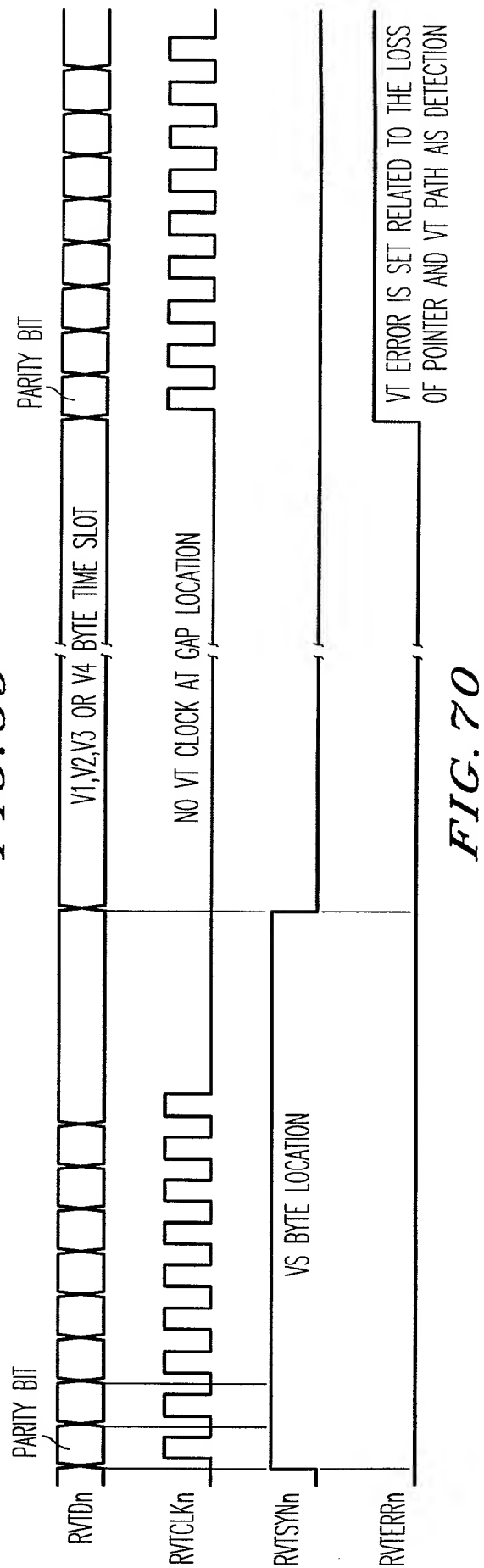


FIG. 70

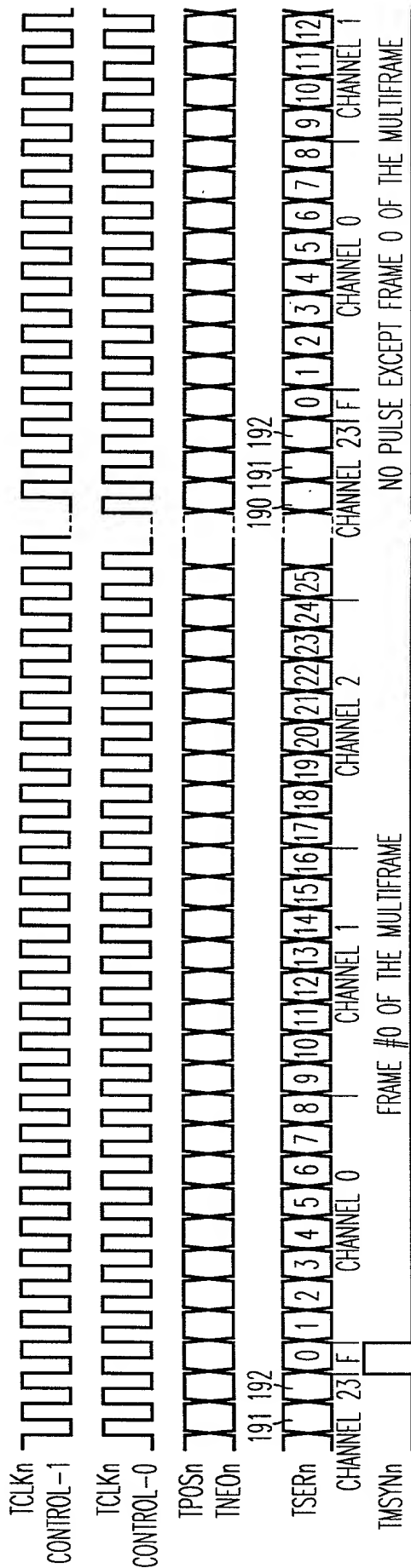


FIG. 71

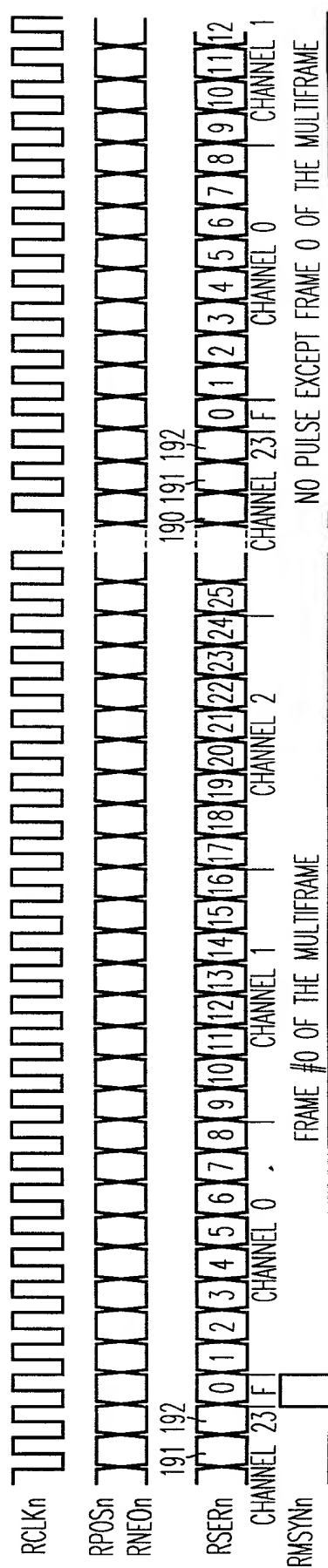


FIG. 72

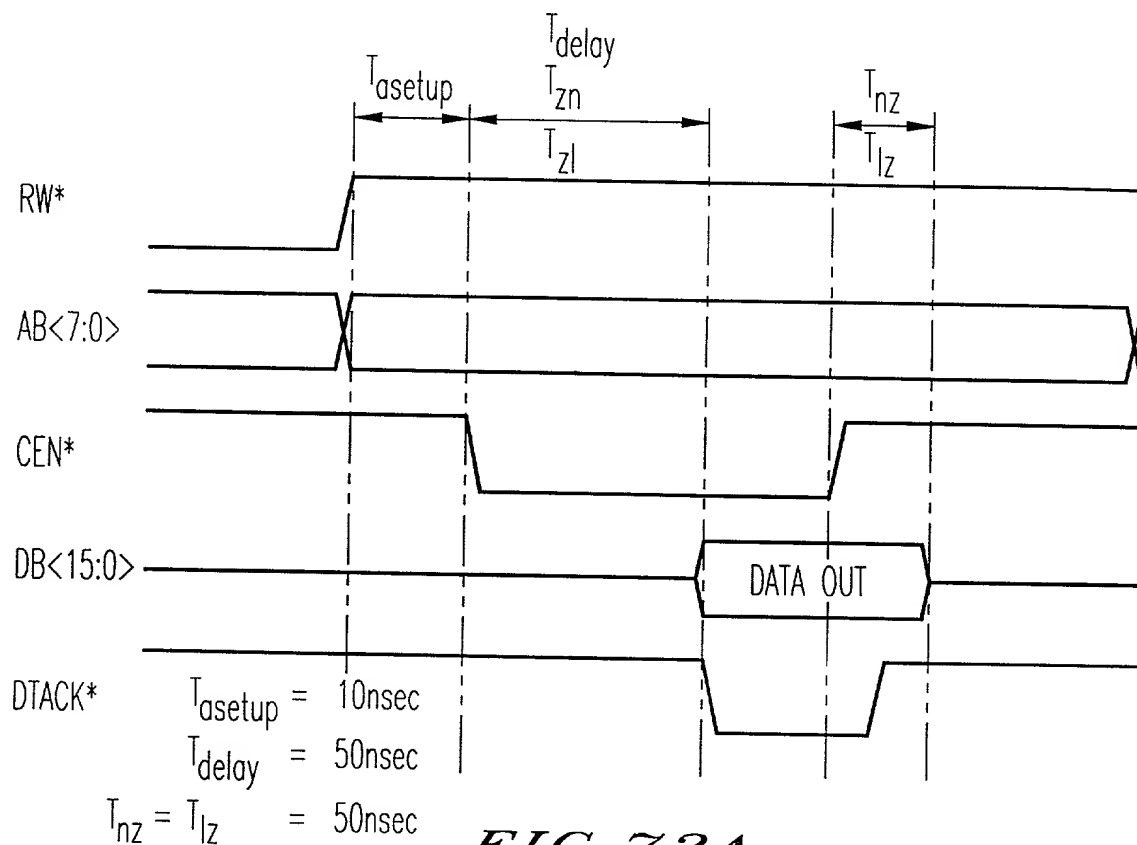


FIG. 73A

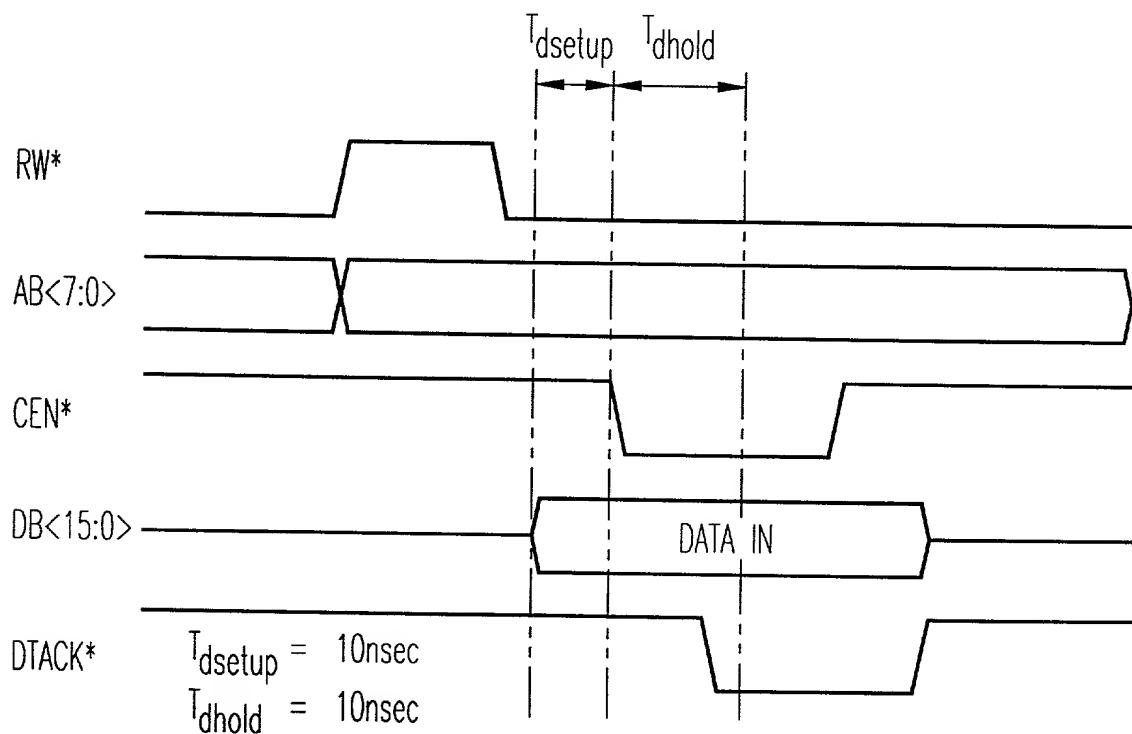


FIG. 73B